ICONES CARPOLOGICÆ.

ICONES CARPOLOGICÆ;

OR

FIGURES AND DESCRIPTIONS

OF

FRUITS AND SEEDS.

BY

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TO

ROBERT BROWN, Esq., D.C.L.,

ETC., ETC., ETC.,

THIS WORK

IS

RESPECTFULLY

DEDICATED

BY

THE AUTHOR.

INTRODUCTION.

Since the time of Gærtner, whose memory will last so long as Carpology shall be studied, no work illustrative of fruits and seeds having appeared (except some papers of Correa de Serra in the "Annales du Museum," vols. viii., ix., x., and xviii.), and the vast increase in the number of genera and species of plants since his time having opened a very extensive field for observation and study, the Author has been induced to follow in the footsteps of this great master by bringing out the "Icones Carpologicæ," with the hope that this branch of Natural History will make advances commensurate with our extended knowledge of plants.

The present number will be found to contain about 400 illustrations, embracing 200 Genera of the Leguminosæ, being only half the number of the Order, as enumerated in "Endlicher's Genera Plantarum," a circumstance partly due to the entire absence either of the fruit, or of any figures of the same in works, to which latter, recourse has been had when the former has failed the Author; and owing to this circumstance also any want of extended dissections of the fruit and seed is to be attributed, and in most instances the authority for the figure thus quoted has been given. The two principal works in connection with the descriptive parts are "Endlicher's Genera Plantarum" and "Walper's Repertorium Botanices Systematicæ," and where the Author has seen it necessary, he has taken upon himself to alter or correct the same.

The Genera illustrated, are arranged with regard to their connection as they stand in Endlicher's work, beginning with Inga, &c. downwards.

It is intended to complete each order as far as possible, and fill up the vacancies or deficiencies at a future time, as supplementary to the general work.

While the Author expects he will find, as he advances, increased opportunities of carrying out his design, as, since the work has been to press, he has received very kind assistance, and is promised much from several quarters, yet he still desires to state his wish of availing himself of specimens of fruits to be illustrated, and to this end he now addresses himself to any Botanists who may be able and willing to help him with the loan of rare fruits,—a kindness which he will not fail to appreciate and acknowledge in its proper place.

T. S. R.

London, February 1849.

*** Icones omnes magnitudinis naturalis sunt, exceptis quibus signa sequentia sunt affixa; nempe, quibus signum *plus* (+) accedit, magnitudinem naturalem superant; signa autem $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, &c., icones pro numeri cujusque ratione diminutas denotant.

ICONES CARPOLOGICÆ.

LEGUMINOSÆ.

FRUCTUS, legumen v. lomentum.

Legumen longitudinaliter bivalve membranaceum coriaceum, rarius carnosum drupaceumve, dehiscens aut indehiscens, uniloculare, interdum altera sutura introflexa longitudinaliter biloculare, nunc inter semina isthmis transversis interceptum, in loculos plures monospermos, pericarpio continuo divisum, v. pericarpio inter semina constricto in articulos dilabens (*lomentum*), polyspermum, v. abortu monospermum. Semina suturæ superiori (*vexillari*, v. *ventrali*), alternatim biseriata, plus minus reniformia, v. ovalia; funiculo plus minus distincto, interdum in arillum expanso. Testa lævis, sæpe lævissima et lapidea. Endopleura membranacea, interdum tumida. Albumen nullum, v. parcum. Embryo nunc rectus, nunc homotropous seu pleurorhizeus, radicula nempe inflexa et super loborum commissuram prona, sed in utroque casu ad hylum directa. Cotyledones foliaceæ, planæ, per germinationem in folia stomatibus donata et viridia conversæ, aut carnosæ (carne nunc farinacea nunc oleosa) per germinationem immutatæ, aliæ exsertæ, aliæ intra spermodermium sub terra inclusæ.—*DC. ex parte.*

MIMOSEÆ. *R. Br.*

Legumen nunc longitudinaliter bivalve, uniloculare, v. isthmis inter semina transversim pluriloculare, siccum, v. pulposum, nunc indehiscens, v. in articulos monospermos, a margine persistente solutos secedens, rarissime valvis longitudinalibus angustis a margine lato solutis spurie quadrivalve. Semina plura, biseriata, horizontalia, sicca, v. arillata. Albumen sæpissime nullum. Embyro orthotropous. Cotyledones magnæ, carnosæ, germinatione ut plurimum epigeæ. Radicula brevis recta. Plumula inconspicua.—*Endl.* p. 1323.

INGA. *Martius.*

Legumen carnosum, v. coriaceum planum tetragonum, v. subteres, rectum, v. subincurvum, vix dehiscens, marginibus incrassatis, v. valde dilatatis et sulcatis. Semina pulpa dulci sæpe nivea involuta. *Frutices, v. arbores Americæ calidoris.*—Bth. *in Walp.* 5, p. 622. Endl. 6837.

I. *fastuosa,* Willd. Legumen magnum, oblongum, rotundato-obtusum, compressum, hirto-rubigineum, spiraliter tortuosum, margine incrassatum, 6-11-poll. longum, 3-poll. latum, medullâ farctum. Semina oblonga compressa. Caracas. *Mim. fastuosa,* Jacq. Fragm. t. 10 (*a quo ic.*).—TAB. I. f. 1. Leg. dimid. magn. nat. *a, b,* semina.

I. *cylindrica,* Mart. Legumen planum glabrum. In Insulis Indiæ Occid. *Mimosa, Fl. Fl.* xi. t. 9. TAB I. f. 2 (*ic. a Velloso*).

I. *spuria,* Willd. Legumen lineare, brevissime pedicellatum, apice mucronatum, compressum, margine valde incrassatum, sulcatum et undulatum, torulosum, hirto tomentosum, fuscum, figuram S. referens, 8-9-spermum. Nov. Andalusia.—TAB. I. f. 3 (*ic. a Kunth, Mim.* t. 12).

I. *edulis,* Mart. Legumen tenuiter tomentosum, sæpe pedale, v. longius, vix semipollicem diametro, marginibus faciem utramque omnino obtegentibus. *Mimosa Ynga,* Arrabida, *Fl. Fl.* xi. t. 3. Brazilia. TAB. I. f. 4 (*ic. l. c.*)

ENTEROLOBIUM. *Mart.*

Legumen breve incurvato-reniforme crasso-coriaceum compressum, indehiscens, intus carnosum, endocarpio purgamentaceo, transverse septatum. Seminum funiculus filiformis. *Arbores Americæ.*—Bth. *in Walp.* 5, p. 621. Endl. 6837.

E. *Timbouva,* Mart. *Mimosa contortisiliqua,* Arrabida. Brazilia, Uruguay, et Jamaica. *Adsunt specimina in Museo Hort. Kew.*—TAB. I. f. 7.

PITHECOLOBIUM. *Mart.*

Legumen compressum, v. planum, contortum, v. falcatum, rarius fere rectum, valvulis coriaceis, v. carnosis, margine vix incrassatis, dehiscentia sæpe tortis, nec revolutis. Semina in pulpa tenui rarius evanida nidulantia, funiculo filiformi in arillum carnosum expanso. *Frutices, v. arbores regionum calidiorum utriusque hemisphæræ.*—Bth. *in Walp.* 5, p. 608. Endl. 6837.

P. *dulce,* Bth. Legumen torulosum circinnatum, valvulis intus rubris, pulpa eduli repletum. Semina atro-nitida arillo semi-immersa. *Mim. dulcis,* Rxb. *Pl. Cor.* t. 99. *Inga dulcis et I. pungens,* Willd. Mexico, Insulis Philipp. et India Orient.—TAB. I. f. 5. Legumen cum semine (*ic. l. c.*).

P. *lobatum,* Bth. Legumen ultra medium transverse divisum, lobis orbiculatis crassis, 1-2-poll. diametro. Semina orbiculata intra pulpam edulem nidulantia. *Inga lobata,* Wall. *Cat.* 5280. *Mimosa Jiringa,* W. Jack. *M. Diringa,* Rxb. *M. Koeringa,* Rxb. Regno Burmannico.—TAB. I. f. 6. Legumen cum valvulâ aperta, et semine.—(*Ex Herb. Wallich. Museo Soc. Linn.*)

P. *umbellatum,* Bth. Legumen arcuatum, v. falcatum, lignosum, reticulato-scabrum, 9-10-articulatum? 8-10-spermum. *Inga umbellata,* Willd. *I. concordiana,* DC. *Mim. concordiana,* Rxb. *ic. ined.* 1003. Ind. Orient.—TAB. II. f. 1. Legumen cum seminibus in situ.

P. *Auaremotemo,* Mart. Legumen anfractibus 2-4-cochleatum, semipollicem latum, valde compressum, valvulis margine breviter incrassatis. Semina arillata. *Inga nandinæfolia,* DC. *Mim. cochliocarpa,* Gomez. *Mim. vaga,* Arrabida, *Fl. Fl.* xi. t. 13 (*a quo ic.*). Brazilia tropica.—TAB. II. f. 2.

P. *lusorium,* Bth. Legumen late lineare falcato sub-contortum. *Mim. lusoria,* Arrabida, *Fl. Fl.* xi. t. 14. Brazilia.—TAB. II. f. 3 (*ic. a l. c.*).

P. *Saman,* Bth. Legumen rectiusculum planum, fuscum, utraque sutura canaliculata, 8-poll. long. 1-poll. lat. polyspermum. *Inga,* Willd. Jamaica et Caracas.—TAB. II. f. 4 (*ic. a Jacq. Frag. Bot.* t. 9). *Mim. Saman.*

P. *polycephalum,* Bth. Legumen falcatum planum ferrugineo-tomentosum, indehiscens? *Mim. terminalis,* Arrabida, *Fl. Fl.* xi. t. 30. Brazilia tropica.—Tab. ii. f. 5 (*ic. l. c.*).

CALLIANDRA. *Bth.*

Legumen lineare rectum, v. vix falcatum compressum, in valvulas 2 lignosas coriaceas, v. membranaceas, marginibus valde incrassatis ab apice ad basin elastice dehiscens, intus uniloculare epulposum. Seminum funiculus sæpius brevis. *Frutices, v. arbores Americæ calidioris.*—Bth. *in Walp.* 5, p. 598.

C. *mollissima,* Bth. Legumen rectum tomentoso-hirtum, margine incrassatum, inferne in stipitem crassam attenuatum. *Inga,* Kunth, *Mim.*—Tab. ii. f. 6. Legumen immaturum (*ic. l. c.*).

C. *Kunthii,* Bth. Legumen lineare, acutum, basi cuneatum compressum, 6-7-spermum. *Inga anomala,* Kunth, *Mim.* t. 22. Mexico.—Tab. ii. f. 7 (*ic. l. c.*).

ACACIA. *Willd.*

Legumen varium, sæpius siccum, compressum, bivalve, subcoriaceum, occurrit tamen teres, v. vario modo difforme, membranaceum, lignosum, v. rarius subcarnosum, indehiscens, v. rarius elastice, ut in Calliandris dehiscens, intus sæpius uniloculare est, continuum et epulposum, in Phyllodinearum tamen et Gummiferarum speciebus quibusdam observatur transverse septatum, farctum, v. tenuiter pulposum. Semina transversa, v. rarius longitudinalia, appensa funiculo filiformi, juxta semen sæpe magis minusve in strophiolam dilatato. Bth. *in Walp.* 5, p. 587. (*Character essentialis generis a floribus derivatur specibus omnibus exclusis, stamina definita, v. filimenta in tubum connata, habentibus.*)

Phyllodineæ, *Australasicæ.*—Legumen lineare, v. oblongum, planum teres, v. tortuosum, sæpius marginatum, rectum, v. falcatum, v. varie flexuosum, v. tortum, intus nudum, v. inter semina septatum, valvulis coriaceis, v. lignosis, rarius submembranaceis dehiscens. Semina sæpe strophiolata.—*Bth.*

A. *suaveolens,* Willd. Legumen oblongum 1½-poll. long. 6-8-lin. latum, planum, glauco-pruinosum, marginatum, valvulis coriaceis. Van Diemen's Land.—Tab. iii. f. 1. Legumen integrum et valvula cum semine (*ic. a Lab. N. H.*).

A. *saligna,* Wendl. Legumen lineari-oblongum, utrinque acuminatum, compressum, 1-loc. bivalve, semina pauca-10, elliptica, compressa.—Tab. iii. f. 2 (*ic. a Labill.*).

A. *Sophoræ,* Br. Legumen flexuosum, v. arcuatum, anguste lineare subteres. Semina funiculo umbilicali longo intorto plicaturis adpressis carunculam æmulante. Van Diemen's Land. *Lab. N. H.* t. 237. Tab. iii. f. 3 (*ic. l. c.*).

Pulchellæ, *Australasicæ.*—Legumen lineari, planum marginibus sæpius incrassatis, intus continuum epulposum.—*Bth.*

A. *nigricans,* Br. Legumen oblongum compressum, uniloculare bivalve. Semina elliptica. Van Leuwin.—Tab. iii. f. 4 (*ic. a Labill.*).

Gummiferæ, *Americanæ, Asiaticæ, Africanæ.*—Legumen varium.

A. *Farnesiana,* Willd. Legumen cylindricum, turgidum, v. subfusiforme, subincurvum, glaberrimum, farctum, indehiscens, semina conferta, irregulariter biseriata. *A. pedunculata,* Willd. *Mimosa tortuosa,* Jacq. *Vachellia,* Wight et Arn. America, India Orient.—Tab. iii. f. 5. Legumen integrum et dissectum, cum sectione transversali.

A. *Arabica,* Willd. Legumen stipitatum lineare compressum, inter semina utraque sutura contractum, valvulis coriaceis, intus tenuiter pulposum, dehiscens. *Mim. Arabica,* Rxb. In Senegaliâ, Ægypto, Arabiâ, Indiâ Orient.—Tab. iii. f. 6.

A. *Seyal,* Delile. Legumen angusto-lineare, falcatum, demum contortum, planum, glabrum, coriaceum. *A. Raddiana,* Savi. *A. spirocarpa,* Hochst. In Ægypto, Abyssiniâ.—Tab. iii. f. 7.

A. *leucophlæa,* Willd. Legumen angusto-lineare subtortuosum, crassum, complanatum, tomentosum, v. demum glabrum. *A. alba,* Willd. India Orient.—Tab. iii. f. 8.

A. *latronum,* Willd. Legumen 1½-2-poll. longum, 7-9-lin. latum, planum, venosum, sutura superiori fere recta, inferiori valde convexâ, 3-4-sperm. India Orient.—Tab. iii. f. 9 (*ic. a Rxb. ined.*).

A. *Lahai,* Steud. et Hoscht. Legumen lato-oblongum, v. subpanduriforme, planum coriaceum glabrum. Abyssinia.—TAB. IV. f. 1 (*ic. a specimine Schimp. vix maturo*).

VULGARES, *Africanæ, Asiaticæ, Americanæ.*—Legumen lato-lineare, nunc membranaceum indehiscens, nunc chartaceo-coriaceum bivalve (in concinnis), carnosum, incomplete dehiscens.—*Bth.*

A. *Verek,* Guill et Perr. Legumen lineari-oblongum, planum, chartaceum, reticulato-venosum, dehiscens, 6-spermum. Semina orbiculata, funiculis longis incurvis suffultis. Senegambia.—TAB. III. f. 10 (*ic. a Guill. et Perr.* t. 56).

A. *Catechu,* Willd. Legumen lato-lineare, planum compressum, rectum, glabrum, 4-8-spermum. *Mim. Catechu,* Lin. fil. *Mim. Suma,* Rxb. *A. polyacantha,* Willd. *A. Wallichiana,* DC. In Zeylaniâ, India Orient. (*An A. catechuoides,* Bth., *species distincta?*)—TAB. IV. f. 2 (*ic. a Rxb.*).

A. *scleroxyla,* Tussac. Legumen sessile, lato-lineare, planum glabrum, valvulis coriaceis. In Antillis. TAB. IV. f. 3 (*ic. a Tuss.* t. 21).

A. *concinna,* DC. Legumen crassum, succulentum? valvulis exsiccatione rugatis, dehiscens. Semina 8-10. *Mim. concinna,* Willd. *M. rugata,* Lam. *Mim. Saponaria,* Rxb. India Orient.—TAB. IV. f. 4 (*ic. a Rxb.*), f. 5, a specimine exsiccato; f. 6, ex Herb. Wall. 5251, Mus. Soc. Linn. nomine *A. rugatæ,* Ham.

A. *Instia,* Willd. Legumen lato-lineare, subfalcatum compressum, glabrum. India Orient.—TAB. IV. f. 7.

ALBIZZIA. *Durazzini.*

Legumen planum siccum membranaceum, v. chartaceum, tenuiter marginatum, indehiscens, v. in valvulas membranaceas, nec elastice, nec contortim dehiscens. Semina funiculo filiformi appensa. *Arbores Asiæ tropicæ.*—Bth. *in Walpers,* 5, p. 595.

ALB. *lophanta,* Bth. Legumen glabrum rectum, bivalve, 3 poll. long. 9-10-lin. lat. N. Holl. Occid.—TAB. IV. f. 8; *è Mus. Soc. Linn.*

ALB. *Lebbek,* Bth. Legumen stipitatum lato-lineare, compressissimum, 9-10-pollicare, 2-poll. latum, marginibus crassiusculis, ad seminum sedes, torosum, 8-10-spermum; semina funiculis longis suffulta. *Ac. speciosa,* Willd. *Mim. Serissa,* Rxb. India Orient. Ægypto.—TAB. V. f. 1 (*ex Herb. T. S. R.*).

ALB. *amara,* Boivin. Legumen planum lato-lineare, 6-12-spermum. *Ac. amara,* Willd. *Ac. nellyrenza,* Grah. *Ac. Wightii,* Grah. India Orient.—TAB. V. f. 2 (*ic. a Rxb.*).

ALB. *procera,* Bth. Legumen compressum planum rectum, lineari-lanceolatum, acuminatum, 8-12-spermum. *Ac. procera,* Willd. *Mim. procera,* Rxb. *Mim. elata,* Rxb. *Mim. coriacea,* Blanco. India Orient. et Ins. Philipp.—TAB. V. f. 3 (*ic. a Rxb.* t. 121).

LYSILOMA. *Bth.*

Legumen lineare rectum, v. vix falcatum, plano-compressum, margine incrassato integro a valvulis submembranaceis maturitate solutis. *Frutices, v. arbores Americæ calidioris.*—Bth. *in Walp.* 5, p. 593.

L. *Schiedeanum,* Bth. Legumen 5-pollicare, 8-9-lin. latum, stipitatum, apice longiuscule cuspidatum. Mexico.—TAB. VI. f. 1 (*ic. a Bth. Bot. of Belch., Voy. of the Sulphur*).

SCHRANKIA. *Willd.*

Legumen anguste lineare, valvulis 2 indivisis a margine persistente secedentibus et eo latioribus, v. æquilatis, undique echinatum, intus polyspermum, epulposum uniloculare. *Herbæ, v. fructices scandentes Americæ tropicæ.*—Bth. *in Walp.* 5, p. 585. Endl. 6829.

S. *aculeata,* Willd. Legumen acutum 3-4-poll. long. $2\frac{1}{2}$-lin. latum, undique dense aculeatum. *Acacia quadrivalvis,* Linn.—TAB. IV. f. 9. Legumen integrum; *a,* legumen sectum, valvulis partitis; *b,* pars suprema leguminis; *c, c,* valvulæ; *d, d,* margines (*ic. a specimine è Mus. Carpolog. Soc. Linn.*).

LEUCÆNA. *Bth.*

Legumen stipitatum, lato-lineare, plano-compressum, valvulis 2 rigide membranaceis dehiscens, intus uniloculare, seminibus numerosis transversis. *Arbores, v. frutices Americæ tropicæ; sp. unica India Orient.*—Bth. *in Walp.* 5, 586.

L. *glauca,* Bth. Legumen glaucum, apice cuspidatum 7-8-poll. long. 6-7-lin. latum. Semina ovalia circiter 20, funiculis longis appensa. *Ac. glauca,* Willd. Scinde. —Tab. vi. f. 2 (*ic. a spec. Doct. Stocks communicato*).

GAGNEBINA. *Neck.*

Legumen oblongo-lineare compressum, indehiscens, margine ex utraque sutura membranaceo-alatum, intus transverse multiloculare epulposum. Semina transversa, funiculo filiformi appensa. *Arbores Mauritii et Madagasc.*—Endl. 6833. Bth. *in Walp.* 5, p. 581.

G. *tamariscina,* DC. *G. axillaris,* DC. *Mim. pterocarpa,* Lam.—Tab. vi. f. 5 (*ic. a DC. Leg.* t. 64).

ENTADA. *Linn.*

Legumen lineare, plano-compressum, suturis incrassatis persistentibus marginatum, valvulis transverse articulatis, articulis monospermis, a margine secedentibus, indehiscentibus, v. sæpius endocarpio ab exocarpio recedente spurie dehiscentibus. Semina crassa orbicularia. *Frutices scandentes Asiæ et Americæ tropicæ.*—Bth. *in Walp.* 5, p. 578. Endl. 6832.

E. *scandens,* Bth. Legumen lineare, rectum, v. subfalcatum, 2-4-ped. long. 3-4½-poll. latum, articulis quadratis, maturitate tumidis. Semina 10-20, fusco-nitida. India Orient.—Tab. vi. f. 3. Legumen cum semine.

E. *Abyssinica,* Steud. Legumen lato-lineare rectum, plano-compressum, 7-poll. long. 2-poll. lat. 10-12-spermum; exocarpio integrè secedente, articulis transverse linearibus; 2-poll. long. 4-6-lin. latis. Tab. vi. f. 4. Legumen cum exocarpio parte inferiori persistente (*ic. a spec. ex Herb. Schimperi,* No. 520).

E. *polystachya,* DC. Legumen lato-lineare, compressum, 1½-ped. long. 3-poll. latum, 12-14-spermum, articulis lato-linearibus.—Tab. vii. f. 2 (*ic. a DC. Leg.* t. 62). Leg. ⅓-magn. nat. cum articulo denudato et semine magn. nat.

E. *nova species?*—Legumen longe unilateraliter stipitatum, lato-lineare, 9-11-poll. long. 2-latum, 6-spermum, articulis quadratis tumidis reticulatis, exocarpio nigro separatim secedente, endocarpio maculato, seminibus subglobosis fusco-nitidis. Ins. Philipp.—Tab. vii. f. 1. Legumen integrum, cum articulis duobus et semine (*ic. a spec. Cumingii*).

PIPTADEMIA. *Bth.*

Legumen stipitatum, v. rarius sessile, lato-lineare, planum, membranaceum, v. subcoriaceum, bivalvatim dehiscens, intus uniloculare, epulposum. Semina compressa, funiculo filiformi appensa. *Frutices, v. arbores Americæ Austr.*—Bth. *in Walp.* 5, p. 578.

P. *colubrina,* Bth. Legumen 6-9-poll. longum, 7-8-lin. latum, demum fere læve. *Mim. colubrina,* Vell. *Fl. Fl.* xi. t. 16. *Ac. colubrina,* Mart. Brazilia.—Tab. vii. f. 3 (*ic. l. c.*).

MIMOSA. *Linn.*

Legumen compressum, sæpius planum, valvulis 2 a margine persistente secedentibus eoque latioribus integris v. transverse articulatim divisis dehiscens, intus epulposum, inter semina subseptatum, v. uniloculare. Semina funiculo filiformi appensa. *Herbæ, frutices, v. rarius arbores.*—Bth. *in Walp.* 5, p. 584.

EUMIMOSA, *DC.*—*Leguminis valvulæ articulatæ, v. indivisæ.*

M. *polycarpa,* Kunth. Legumen lineari-oblongum, compressum, 3-4-loculare, transverse articulatum, piloso-hispidum, margine setoso, articulis deciduis, costis marginalibus persistentibus. Semina lævissima fusca. Peruvia.—TAB. VIII. f. 1. Legumen integ. et margo, semen auctum (*ic. a Kunth*).

HABBASIA, *DC.*—*Leguminis valvulæ articulatæ.*

M. *montana,* Kunth. Legumen lineare, compresso-complanatum glabrum nitidum, 6-8-articulatum, articulis solubilibus, costis persistentibus. Andies, Peruvia.—TAB. VIII. f. 2. Legumen integrum, cum margine (*ic. a Kunth,* t. 10).

M. *rubicaulis,* Lam. Legumen stipitatum, lato-lineari falcatum glabrum, 3-4-poll. long. 6-8-lin. latum, 6-8-sperm. margine aculeato, v. nudo. *M. octandra* et *M. mutabilis,* Rxb. India Orient.—TAB. VIII. f. 3 (*ic. a Rxb.* t. 200).

M. *hamata,* Willd. Legumen stipitatum lato-lineare, subfalcatum, pubescens, 3-4-spermum, margine aculeato. Penins. Indiæ Orient.—TAB. VIII. f. 4. Legumen cum semine.

M. *somnians,* H. B. Legumen lineare, multiarticulatum hispidulum, apice rostrato-subulatum, semina oblonga, compressa. Andies, Nov. Granatensis.—TAB. VIII. f. 5. Legumen et articulum auctum (*ic. a Kunth,* t. 7).

M. *asperata,* Linn. Legumen subfalcatum, rostrato-acutum, basi angustatum, compressum, 20-23-articulatum, utrinque setoso-hispidissimum ; articulis solubilibus, costis marginalibus filiformibus persistentibus. Semina oblonga, compressa, lævia, nitida. *M. Pellita,* Willd. America Aust. et India Occident. Ægypto spec. habeo.—TAB. VIII. f. 6. Legumen et articulum auctum (*a Kunth,* t. 9).

M. *microcephala,* H. et B. Legumen lineari-multiarticulatum, undique strigoso-pilosum, compressum. Semina lævia fusca. Oronoci fl. rip.—TAB. VIII. f. 7. Legumen et semen auctum.

M. *intermedia,* Kunth. Legumen oblique obovato-oblongum, 1-2 rariss. 3-articulatum, rudimento styli mucronatum, basi attenuatum. Semina compressa glabra. Caraccas.—TAB. VIII. f. 8. Legumen 1 et 3-loculare, cum semine (*a Kunth,* t. 6).

AMERIA.—*Leguminis valvulæ indivisæ.*

M.? *revoluta.*—Legumen sessile compressum, revolutum, glabrum, hinc inde spinulis obsitum, ad marginem exteriorem (tardius solubilem) spinis conico-subulatis horridum, membranaceum bivalve polyspermum. *Acacia revoluta,* Kunth, t. 26 (*a quo ic.*). *Spec. in Mus. Carp. Soc. Linn. ?* Peruvia.—TAB. VIII. f. 9. Legumen cum margine spinoso.

XYLIA. *Bth.*

Legumen sessile, oblongo-falcatum, compressum, utrinque angustatum lignosum, intus inter semina septatum, seminibus transversis funiculo crasso brevi affixis. *Arbor Indica.* Bth. *in Walp.* 5, 587.

X. *dolabriformis,* Bth. Legumen 5-6-poll. 1½-2-poll. latum. *Mim. xylocarpa,* Rxb. t. 100 (*a quo ic.*). *Inga,* DC. *Acacia,* Willd. *Inga lignosa,* Grah. *in Wall. Catal.* 5278. *Mim. Acle,* Blanco. India Orient. et Ins. Philipp.—TAB. VIII. f. 10. Legumen sectum.

DICHROSTACHYS. *DC.*

Legumen lineare contortum compressum membranaceo-coriaceum, v. subcarnosum, intus uniloculare, epulposum indehiscens, v. valvulis a suturis irregulariter secedentibus. Semina plurima obovata compressa. *Frutices Africani et Asiatici.*—Bth. *in Walp.* 5, p. 582.

D. *cinerea,* Wght. et Arn. Legumen lineari-falcatum, v. tortum, v. involutum. India Orient.—TAB. VIII. f. 11. Legumen vix maturum?

D. *Trichostachys,* DC. Legumen 2-3-pollicare, 3-4-sperm. inter semina constrictum, ad seminum sedes tumidum. *D. natans,* Bth. *l. c.*—TAB. VIII. f. 12 (*ic a spec. Schimp.*).

NEPTUNIA. *Lour.*

Legumen oblongum, a stipite deflexum planum continuum, valvulis duabus membranaceis

dehiscens, intus inter semina incomplete septatum, epulposum. Semina transversa, funiculo filiformi appensa. *Herbæ suffruticesve.*—Bth. *in Walp.* 5, p. 583. Endl. 6828.

N. *oleracea,* Lour. Legumen vix pollicare, subarcuatum, compress. bivalve, 5-8-spermum. Semina ovata, compressa, funiculata. *Mimosa lacustris,* Willd. *in H. et Bonpl. pl. equin.* (*a quo ic.*). America merid.—Tab. ix. f. 1. Legumen integrum et apertum.

ERYTHROPHLÆUM. *Afzel.*

Legumen stipitatum, oblongum, compresso-planum, valvis 2 crasso-lignosis dehiscens. Semina arillo sacharato cooperta, albumine copioso embryonem includenti donata, cotyledonibus carnosis. *Arbor Senegambiæ.*—Endl. 6825.

E. *Guineense,* G. Don. Leguminis sutura superior seu interior incrassato-recta, inferior arcuata. Semina 4-8 ovata funiculo lato flexuoso appensa. *Fillæa suaveolens,* Guill. et Perr. t. 55.—Tab. ix. f. 2. Legumen integrum et apertum, sem. sect. et cotyledones denudatæ.

LAGONYCHIUM. *Bieberst.*

Legumen stipitatum, indehiscens, sutura introflexâ bipartitum, subdidymum, incurvum, utrinque obtusum, indehiscens. Semina ovato-oblonga, compressa. Embryo exalbuminosus. *Suffrutex Orientis et Senegambiæ.*—Endl. 6822.

L. *Stephanianum,* Bieb. Legumen ovoideo-oblongum crassum subincurvum, v. difforme. *Prosopis Stephaniana,* Kunth. *Mim. agrestis,* Sieb. *Ac. heterocarpa,* Delile. Persia et Syria.—Tab. ix. f. 3. Legumen integrum *dextro,* sectum *medio,* semen auctum (*ic. a Deless. ic.* 3, t. 75).

PROSOPIS. *Linn.*

Legumen lineare cylindricum v. subcompressum, torulosum, intus pulposum (transverse multiloculare, *Bth.*), irregulariter in frustra secedens. Semina ovato-oblonga. Embryo exalbuminosus. *Arbuscula Indica.*—Endl. 6821.

Pr. *spicigera,* Linn. Legumen elongatum, subtereti-torulosum. India Orient.—Tab. ix. f. 6 (*ic. a Rxb.* t. 63).

Pr. *horrida,* Humb. et Kunth. Legumen stipitatum, lineare, breviter acuminatum compressum, subtorulosum glabrum fuscum, 19-24-loculare indehiscens, loculi demum solubiles, coriacei, monospermi. Semina lævissima, fusca. Ad Andium radices.—Tab. ix. f. 4 (*ic. a Kunth,* t. 33).

Pr. *dulcis,* Kunth. Legumen sæpe stipitatum, lineare, rostratum, compressum, margine undulato-repandum, torulosum, glabrum, non dehiscens, 13-15-loc. loculi demum solubiles coriacei 1-sperm. Semina obovata subrotunda. *Ac. edulis,* Willd. *Algarobia dulcis,* Bth. Nova Hispania.—Tab. ix. f. 5 (*ic. a Kunth,* t. 34).

Pr. *Strombulifera,* Bth. Legumen flavum, glabrum, dense spiraliter contortum (semper sinistrorsum ?). *Ac. strombulifera,* Willd. Mendoza.—Tab. x. f. 1. Leg. integr. et sectum (*ic. a spec. in Mus. Carp. Soc. Linn.*).

ADENANTHERA. *Linn.*

Legumen lineare, falcatum, compressum, uniloculare, valvis membranaceo-coriaceis dehiscens. Semina lata, compresso-convexa (pulpa tenui nidulantia, *Bth.*) funiculo brevi strophiolato affixa. *Arbores Asiæ tropicæ.*—Bth. *in Walp.* 5, p. 580. Endl. 6820.

Ad. *Pavoniana,* Linn. Legumen 7-9-pollicare, 8-10-lin. latum, valvis maturitate elastice revolutis, marginibus crassiusculis e valvis vix solubilibus. Semina 8-12, coccinea, nitida, glabra. Integumentum crustaceum, durum, tenue. India Orient. *Specimina adsunt in Mus. Carpol. Soc. Linn.*—Tab. ix. f. 7.

TETRAPLEURA. *Bth.*

Legumen stipitatum lato-lineare, obtusum compressum, subfalcatum vel arcuatum lignosum, loculis transversis monospermis, medio per totam longitudinem utrinque latere auctum cristâ chartaceâ pericarpio conformi eoque fere crassiori, et pulpa subdulci farcta, margine obtusa, quo pericarpium quadrialatum primo aspectu simulat. Semina ovata compressa, suturæ concavæ affixa.

T. *Thonningii,* Bth. Legumen cum stipite 7-pollicare et ultra, 1-poll. latum, transverse 2-poll. totum fusco-nitidum, alis plano tumidis, singulâ utrinque, *i. e.* superne inferneque juxta leguminis latus sulcatâ. Semina 15-20? parva, 4-5-lin. long. 3-lin. lat. lineâ intramarginali vix notata. *Adenanthera tetraptera,* Schum. et Thonn. Gambier Fl.—TAB. X. f. 2. Legumen integrum; *a,* leg. sectum, alâ dextra resecta, loculos exhibens; *b,* sectio transversalis leguminis et alarum; *c,* semen: omnia magn. nat. (*A specimine in Collect. Carpol. T. S. R. Adsunt etiam spec. in Mus. Soc. Linn. et Hort. Kew.*)

PARKIA. *R. Br.*

Legumen stipitatum, lineare, v. oblongum, compressiusculum valvulis crasso-coriaceis, intus pulpa semina obtegente farctum. *Arbor tropica.*—Bth. *in Walp.* 5, 570. Endl. 6819.

P. *biglobosa,* Bth. Legumen pedicellatum lineare subfalcatum, v. arcuatum, v. tortum, 10-15-pollicare, semipoll. latum, 20-25-sperm. intus pulpa flavescente farinacea semina obtegente repletum. *Parkia Africana,* R. Br. *Inga senegalensis,* DC. *P. biglandulosa,* Wght. et Arn. *Mimosa grandiflora,* Madr. Herb. *M. pedunculata,* Rxb. *P. Brunonis,* Grah. *P. Roxburghii,* G. Don. *M. peregrina,* Blanco. India Orient. Africa tropica, Ins. Philipp. et America.—TAB. X. f. 3. (*Adsunt specimina in Mus. Carpol. Soc. Linn. et Hort. Kew.*)

SWARTZIEÆ. *DC.*

Legumen bivalve, uniloculare, oligospermum. Semina nuda, v. arillo carnoso instructa; albumen nullum; embryonis cotyledones crassæ; radicula brevis, uncinato-incumbens.—*Endl.* p. 1321.

SWARTZIA. *Willd.*

Legumen sæpius stipitatum, bivalve, oligospermum. Semina arillata; cotyledones crassæ, radicula brevis, uncinato-inflexa. *Arbores Americæ tropicæ.*—Endl. 6814.

Sw. *grandiflora,* Willd. Legumen stipitatum, bipollicare, oblongum, utrinque acutum, 1-2-spermum, inter semina coarctatum. Semen ovale, atro-nitidum, umbilico ventrali lineari; arillo incompleto subcarnoso, multipartito.—*Rittera grandiflora,* Vahl. Ins. Trinitatis et St. Vincent.—TAB. X. f. 4. Legumen; *a,* semen arillo vestitum, dorso visum; *b,* semen latere visum.

Sw. *pinnata,* Willd. Legumen stipitatum, 6-pollicare et ultra, teretiusculum, inter semina coarctatum, 2-5-sperm. stylo sesquipoll. terminatum, bivalve. Semina ovato-oblonga. Arillus carnoso-striatus, margine crenulato, in pedicello desinens. *Rittera pinnata,* Vahl. *Poissira,* Poir. Ins. Trinitatis.—TAB. X. f. 5. Legumen et semen cum arillo et pedicello ad suturam adhærenti.

Sw. *ochnacea,* DC. Legumen stipite semipollicari donatum, obovatum, basi attenuatum, stylo apiculatum. Semen 1, magnum reniforme. America meridionali.—TAB. XI. f. 1. Legumen integrum, apertum et seminis sectio (*ic. a DC. Leg.*).

Sw. *triphylla,* Willd. Legumen oblongo-latum, verrucosum, 1-loc. bivalve. Semina 3-4, compressa, angulata. *Poissira arborescens,* Aubl. Guiana et Cayenna.—TAB. XI. f. 2. Legumen cum semine.

Sw. *alata,* Willd. Legumen ovatum, luteum, utroque latere sulcatum, uniloculare, bivalve. Semen nigrum, arillo albo, basi leguminis affixum. *Tounatea Guianensis,* Aubl. Guiana.—TAB. XI. f. 3. Legumen, et idem apertum, semen cum arillo exhibens, et semen transverse sectum.

MARTIUSIA. *Bth.*

Legumen sessile, oblongum, subobliquum, plano-compressum, coriaceo-membranaceum, indehiscens, reticulatum et longitudinaliter binerve, sutura utraque in alam expansa. Semen unicum, plano-compressum, rhombeum, fere ad apicem loculi appensum, funiculo elongato, cotyledonibus tenuibus, radice brevi recta.—Bth. *in Hook. Journ. Bot.* vol. ii.

M. *parvifolia,* Bth. Legumen latum, tenue, pubescens, valvulis in medio legumine locul. 1½-poll. long. 3¼-poll. lat. formantibus, cæterum arcte connatis. Brazilia.—Tab. xi. f. 4 (*ic. e Sert. plant.*).

DETARIUM. *Juss.*

Drupa orbiculata, crassa, epicarpio membranaceo, sarcocarpio farinaceo, eduli, fibrillis creberrimis intertexto ex endocarpio procedentibus, putamine osseo, extus rugoso, ambitu marginato, lævi, monospermo, intus membrana coriacea obtecta. Semen cavitati conforme, latere umbilicatum. Embryonis exalbuminosi cotyledones crassæ subfarinosæ; radicula umbilico proxima, brevis, conica, inclusa. *Arbor Senegambica.*—Endl. *ex parte,* 6816.

D. *Senegalense,* Gmel.—Tab. xi. f. 5. Fructus integer; *b,* idem pericarpio ablato fibrillas exhibens; *c,* semen sectum (*ic. a Guill. et Perr.*) (*Adest specimen in Mus. Hort. Kew.*)

CÆSALPINIEÆ. *DC.*

Legumen varium. Embryo rectus.—*Endl.* p. 1310.

CERATONIA. *Linn.*

Legumen lineare, rectum, compressum, suturis crassissimis, bisulcatis cinctum, coriaceum, indehiscens, intus inter semina isthmis pulposis transversis plurilocellatum, locellis monospermis, endocarpio cartilagineo. Semina obovata, compressiuscula, dura, umbilico basilari, testâ corneâ, endopleurâ membranaceâ, albumine parco, carnoso. *Arbor Mediterranea.*—Endl. 6809.

C. *siliqua,* Linn. Legumen 4-pollicare et ultra, 1-latum, pulpa nigricante, v. rarius albicante. *Courbier. St. John's bread. Carob Tree.* Semina post transitum per ventres animalium citius germinantia.—*Cav.* Tab. xii. f. 1. Legumen integrum et longitudinaliter sectum, et sectio transversalis ejusdem (*ic. a Gærtnero*).

HARDWICKIA. *Rxb.*

Legumen lanceolatum compressum, uniloculare, bivalve, monospermum. Semen cuneatum, plano-compressum, apice leguminis dehiscente pendulum, ad latus posterius membranaceum. *Arbor Indica.*—Endl. 6808.

H. *binata,* Rxb. Legumen 2-3-poll. longitudinaliter striatum. Semen striatum.—Tab. xii. f. 2. Legumen apice apertum, et semen (*ic. a Rxb.*).

RIVERIA. *H. B. K.*

Legumen oblique ellipticum, compressiusculum, stipitatum, mucronatum, coriaceo-chartaceum, bivalve, monospermum. Semen oblongo-reniforme, ad ventrem, ubi affixum, substantia alba, friabile munitum, testâ chartaceo-membranacea. Cotyledones crassæ.

Embryonis exalbuminosi, semini conformis radicula infra apicem embryonis sita, infernè spectans. *Arbor Peruana.*—Endl. 6807.

R. *nitens*, H. B. K. Fructus longe stipitatus, oblique mucronatus, ad marginem suturâ cinctus, 14-15-lin. long. Semen suturæ minorem arcum cavitatis efficienti affixum.—TAB. XII. f. 3. Legumen et semen cum arillo (*ic. ex. Humb. N. Gen.*).

COPAIFERA. *Linn.*

Legumen stipitatum, oblique ellipticum, lenticulari-compressum, coriaceum, monospermum, bivalve. Semen ellipticum, arillo baccato involutum, albuminosum. Cotyledones plano-convexæ, carnosæ. Embryonis recti radicula sublateralis. *Arbores Americæ tropicæ.* Endl. 6806.

C. *officinalis*, Linn. Legumen breviter pedicellatum et stipitatum, rudimento styli obsolete notatum, glabrum, fuscum, 8-10-lin. long. valvis coriaceis, balsamiferis. Semen nigrum hilo parvo, 5-lin. long. apicem leguminis spectante. Tacamahaca *insulorum.*—TAB. XII. f. 4. Legumen integrum, et apertum. Semen cum arillo, et seminis sectio (*ic. ex Humb. N. G.*).

DIALIUM. *Linn.*

Legumen ovale, compressum, indehiscens, crustaceum, suturâ seminifera sulco exaratum, sæpissime monospermum. Semen pendulum, albumine crasso, corneo. Cotyledones foliaceæ. *Arbores Asiæ, Africæ, et Americæ tropicæ.*—Endl. 6805.

D. *Indum*, Linn. Legumen suborbiculatum, lateribus compressum, evalve. Semen solitare obovato-quadratum. *D. Javanicum*, Burm. India.—TAB. XII. f. 5. Legumen integrum, semen magn. nat. idem *infra* a latere visum, sectio transversalis embryonem et albumen exhibens, et sectio longitudinalis (*ic. ab. Horsf. Pl. Jav. rar.*).

D. *nitidum*, Guill. Legumen breve pedicellatum, oblique subrotundum, compressiusculum lateraliter mucronatum, densissime atro-tomentosum, pericarpio fragile, pulpa acidula repleto. Semen ovato-sub-compressum, fusco-nitidum, albumine crasso, embryonem involvente.—TAB. XII. f. 6. Legumen et ejus sectio. Semen (*ic. a Guill. et Perr.*).

VOUPA. *Aubl.*

Legumen stipitatum, compressum, coriaceum, monospermum, bivalve. Semen amplum, subrotundum, compressum. *Macrolobium*, Schreb. *Arbores Americæ tropicæ.*—Endl. 6803.

V. *bifolia*, Aubl. Legumen pedicellatum oblongo-latum, hinc alato-marginatum. *Macrolobium hymenæoides*, Willd. *M. Vuapa*, Gmel. *M. bifolium*, Pers. Guiana.—TAB. XII. f. 7. Legumen cum semine (*ic. ex Aubl.*).

V. *Simira*, Aubl. Legumen crassum, coriaceum, subrotundo-compressum, ferrugineum. Semen sub-rotundo-depressum, glabrum. *Mac. sphærocarpum*, Willd. *M. Simira*, Gmel. *Voapa violacea*, Lam. Guiana.—TAB. XII. f. 8. Legumen (*ic. ex Aubl.*).

CRUDYA. *Willd.*

Legumen coriaceum, crassum, indehiscens? mono-dispermum. *Touchiroun*, Aubl. *Arbor Guianensis.*—Endl. 6802.

C. *Vouarana*, DC. Legumen pyriforme, utrinque sulcatum (biloculare?), valvis coriaceis dehiscens. Semen subrotundum glabrum. Guianâ. *Vouarana Guianensis*, Aubl. (*a quo ic. et descrip.*).—TAB. XII. f. 9. Fructus cum semine.

PARIVOA. *Aubl.*

Legumen crassum, compressum, ovale, bivalve, 1-spermum. Semen . . . *Arbor Guianensis.*—Endl. 6801.

P. *grandiflora,* Aubl. Legumen pedicellatum, latum, lignosum, ferrugineum. Semen subrotundum, compressum. *Dimorpha,* Willd. Cayennâ.—Tab. xii. f. 10. Legumen (*ic. ex Aubl.*).

PALOVIA. *Aubl.*

Legumen oblongum, compressum, bivalve, hexa-heptaspermum. Semina . . . *Frutex Guianensis.*—Endl. 6799.

P. *Guianensis,* Aubl. Semina ovata compressa glabra. Guianâ.—Tab. xiii. f. 1. Legumen (*ex Aubl.*).

ANTHONOTA. *Palis. de Beauv.*

Legumen compresso-planum, vix dehiscens, 1-loculare, polyspermum, rugis transversis subreticulatum. Semina orbiculata, plana. *Frutex Africæ tropicæ.*—Endl. 6797.

A. *macrophylla,* Beauv.—Tab. xiii. f. 2. Legumen ⅓-magn. nat. (*a Palis. de Beauv.*).

AFZELIA. *Smith.*

Legumen ovato-oblongum, compressum, vix dehiscens, polyspermum, isthmis inter semina transversim pluriloculare. Semina ovata, compressiuscula, umbilico basilari, arillo carnoso, cupulæformi cincto. Embryonis exalbuminosi cotyledones carnosæ, radiculâ retractâ. *Arbor Africæ tropicæ Occid.*—Endl. 6796.

Af. *Africana,* Smith. Legumen lignosum, subobliquum, acumine brevi lateralique terminatum, bivalve, 6-8-pollicare, 2¼-4-poll. lat. valvis crassissimis, locularum parietibus membrana chartacea, albida obtectis. Semina margini longiori affixa olivæformia, 5-10-lin. longa, aterrima; arillo coccineo, demum aurantiaco eduli.—Tab. xiii. f. 3. Leguminis valva magn. dimid. nat. Semen cum arillo instructum, embryo, et seminis sectio (*ic. a Guill. et Perr.*).

JONESIA. *Rxb.*

Legumen stipitatum, lato-lineare, compressum, reticulatum, suturis incrassatis, dehiscens, ad semina subturgidum, 4-8-spermum. Semina ovato-depressa. *Arbor, v. frutex Asiæ tropicæ.* Endl. 6795.

I. *Asoca,* Rxb. Legumen rectum, v. subfalcatum, acutum, 8-10-pollicare, 1½-poll. latum. *I. pinnata,* Willd. *Saraca arborescens,* Burm. *S. Indica,* Linn. Malabariâ, Javâ, &c. (*Specimen adest fructus Mus. Soc. Linn.*).—Tab. xiii. f. 4. Legumen cum semine (*ic. a Rxb. ined.*).

AMHERSTIA. *Wall.*

Legumen oblongum, compressum, acuminatum, subpentaspermum, stipite bipollicari suffultum. Semina . . . *Arbor martabanica.*—Endl. 6793.

A. *nobilis,* Wall. Legumen coccineum.—Tab. xiii. f. 5. Legumen vix maturum (*ic. a Wall. Pl. As. rar.*).

BROWNEA. *Jacq.*

Legumen acinaciforme, compressum, uniloculare, polyspermum. Semina ovata, compressa, fibris fungosis obvoluta (testa Berg. et Schreb.). *Arbusculæ Americæ tropicæ.*—Endl. 6810.

Br. *grandiceps,* Jacq. Legumen oblongum, acuminatum, compresso-planum, fusco-badium, nitidum, striis sive venis transversis numerosis ornatum, bivalve. Semina 4, inæqualia, subrotunda, v. subquadrata, compresso-plano, badia punctata. Caracas.—Tab. xiv. f. 1. Legumen cum seminibus (*ic. a Jacq. Frag.*).

BR. *cauliflora,* Poepp. et Endl. Legumen lato-lineare, subfalcatum apiculatum, 7-8-pollicare, 1-poll. lat. utraque sutura imprimis autem dorsali late marginatum, valvis coriaceis transversim oblique rugulosis. Semina 6-7, compressa, lentiformia nitida.—TAB. XIV. f. ad dextr. (3 errore) (*ic. a Poepp. et Endl.*).

CAMPSIANDRA. *Bth.*

Legumen longissimum subrectum, plano-compressum, tenuiter coriaceum, indehiscens. *Arbor.*

C. *rosea,* Poepp. et Endl. Legumen stipitatum, compressum, utrinque obtusum, sutura dorsali alatum, 8-pollicare, $1\frac{1}{2}$-poll. lat. Semina circiter 8, reniformia, lævia. Braziliâ tropicâ.—TAB. XIV. f. 3. Legumen (*ic. a Poepp. et Endl.*).

CASPAREA. *Kunth.*

Legumen stipitatum, siccum, lato-lineare, compressum, bivalve, polyspermum. Semina compressa albuminosa. *Arbor, v. frutex Americæ tropicæ.*—Endl. 6791.

C. *Pescapræ,* Cav. Legumen longum compressum. Semina ovata compressa.—TAB. XIV. f. 4. Legumen (*a Cav.*).

BAUHINIA. *Plum.*

Legumen stipitatum, lineare compressum, bivalve, polyspermum. Semina compresso-lenticularia, albuminosa. Embryonis recti cotyledones planæ, radicula obtusissima. *Arbores, v. frutices Asiæ, Africæ, et Americæ tropicæ.*—Endl. 6790.

B. *inermis,* Cav. Legumen 8-pollicare, et ultra, vix 3-4-lin. lat. Semina nigricantia, nitida.—TAB. XIV. f. 5 (*ic. a Cav.*).

B. *anguina,* Rxb. Legumen oblongum, compressum, glabrum, 1-2-spermum. *B. scandens,* Linn. *B. piperifolia,* Rxb. India Orient.—TAB. XIV. f. 6. Legumen integrum et valvula cum seminibus, seminis sectio transversalis et embryo.

B. *corymbosa,* Rxb. Legumen tenue, planum, nigrum, 6-12-spermum. India Orient.—TAB. XIV. f. 7. Legumen.

B. *racemosa,* Lam. Legumen lineare, rectum v. curvatum, lignosum crassum, vix dehiscens, polyspermum. *B. parvifolia,* Vahl. India Orient.—TAB. XV. f. 1. Legumen apice valvulâ resecta (*ic. a Rxb. ined.*).

B. *variegata,* Linn. Legumen longe stipitatum, lineari-falcatum compressum, 8-pollicare, valvis oblique reticulatis, dehiscens. Semina 10-12, suborbicularia, compressa. *B. candida,* Rxb. India Orient.—TAB. XV. f. 2. Legumen arte apertum.

B. *reticulata,* DC. Legumen pedicellatum, cultriforme, compressissimum, bivalve, polyspermum, 8-10-poll. long. 2-4-poll. lat. coriaceum, intus pulpâ farinacea repletum. Semina pulpa nidulantia, funiculis longis inæqualibus suffulta, subrotunda, hinc recta, compressa, fusco-nitida. Senegalia.—TAB. XV. f. 3. Legumen dimid. magn. nat. cum valvulâ partim resectâ. Semen magn. nat.

B. *Vahlii,* W. et Arn. Legumen lignosum, lato-lineare, obtusum, 12-14-poll. long. 3-poll. lat. ferrugineo-tomentosum, 5-8-sperm. dehiscens. Semina suborbicularia, compressa, glabra, fusca, funiculis triangulari-latis. *B. scandens,* Rxb. India Orient.—TAB. XV. f. 4. Legumen dimid. magn. nat. (*ic. a Rxb. ined.*).

B. *semibifida,* Rxb. Legumen brevi-stipitatum, lanceolatum, acuminatum, planum, glabrum, oligospermum. Semina plana, orbicularia, funiculis latis suffulta. India Orient.—TAB. XV. f. 5. Legumen maturum (*ic. a Wall. Pl. As. rar.*).

HYMÆNEA. *Linn.*

Legumen lignosum, v. carnosum, læve, v. verrucosum, turgidum, indehiscens, pulpâ exsucca farctum, mono-pleiospermum. Semina ovato-subglobosa, v. ovato-tetragona, testâ lapidea. Embryonis exalbuminosi recti, cotyledones carnosæ, radicula inter cotyledonum margines abscondita. *Arbores Americæ tropicæ.*—Endl. 6788.

H. *Courbaril*, Linn. Legumen stipitatum, lignosum, ovato-oblongum, valvis crassis, margine seminifero recto sulcato, dorsali convexo, pulpa exsucca (an potius arillus fibratus?) filamentosa subdulcis cavitatem replens, seminibus adhærens, iisque formam subcuboideam communicans. Semina olivæformia, lateraliter compressa, hilo fungoso, testâ crassa. Americâ meredionali.—Tab. xvi. f. 1. Legumen integrum dimid. magn. nat. et fructûs sectio pulpam exhibens, seminibus 2 ablatis; *a*, semen aspectu horizontali (*v. e latere valvulæ*) visum; *b*, semen pulpâ involutum, latere apicem leguminis versus (*v. verticaliter*), visum; *c*, semen eodem aspectu; *d*, sectio transversalis seminis.

H. *verrucosa*, Gært. Legumen parvulum, coriaceo-suberosum, obovatum, turgidum, verrucis dissitis punctisq. minutissimis variegatum; intus pulpâ sicca semen unicum subtetragonum involvente farctum. Madagascar.—Tab. xvi. f. 2. Legumen integrum, et apertum cum semine in situ, semen et ejus sectio transversalis (*ic. a Gærtnero*).

SCHOTIA. *Jacq.*

Legumen coriaceum, ovato-ellipticum, margine superiori v. utroque alatum, mono-hexaspermum, valvulis demum a suturis persistentibus solutis. Semina compressa, ovali-subglobosa, subreniformia, umbilico nudo v. arillo cupulæformi maximo cincta. Embryonis exalbuminosi recti cotyledones carnosæ, radicula brevissima. *Arbores Capenses.*—Endl. 6785.

Sch. *latifolia*, Jacq. Legumen ovale coriaceum 2-4-sperm. margine superiori late alato. *Omphalobium Schotia*, Jacq. Cap. Bonæ Spei.—Tab. xvi. f. 3. Legumen integrum, et apertum cum seminibus (*ic. a Hook. Exot. Fl.*).

CYNOMETRA. *Linn.*

Legumen sutura seminifera recta, altera arcuata sub-semiorbiculatum, crassum, turgidum, subcarnosum, verrucosum, vix dehiscens, monospermum. Semen cavitatem implens, umbilico ventrali suturæ medio insertum. Embryonis exalbuminosi recti cotyledones crassæ, rotundato-subcordatæ, radicula brevissima, retracta. *Arbores Asiæ tropicæ.*—Endl. 6784.

C. *cauliflora*, Linn. Legumen carnosum, semilunatum, compressum, tuberculatum. Semen glabrum, ferrugineo-rubrum, cotyledones plano-convexæ. India Orient.—Tab. xvi. f. 4, ic. *ad dextram* leguminis integri, sext. part. magn. nat. *proxima*, aperti, *tertia*, seminis magn. nat. *quarta*, cotyledonis (*ic. a Gærtn.*).

C. *polyandra*, Rxb. Legumen carnosum, semilunare, compressum, 2-3-poll. long. 2-poll. lat. parce? tuberculatum. Semen ovatum, glabrum. India Orient.—Tab. xvi. f. 5. Legumen (*ic. a Rxb.*) (*Hæc species ob stamina numerossima a genere (Cynometra) exclusa est ab Endlich. et Walp. sine ulla emendatione.*)

CASSIA. *Linn.*

Legumen teres v. compresso-planum, lignosum, coriaceum v. membranaceum, indehiscens v. bivalve, uniloculare v. septis transversis multilocellatum, interdum pulpa farctum, polyspermum. Semina septis parallele v. contrarie compressa, albuminosa. Embryo rectus. *Arbores frutices, suffrutices, v. herbæ, in regionib. tropicis et subtropicis totius orbis.*—Endl. 6781.

Fistula, *DC.* Legumen cylindricum v. cylindrico-compressum, lignosum, indehiscens, transverse multiloculare, pulpa dulci purgante repletum; semina elliptico-compressa, horizontalia.—*Arbores.*

C. *Braziliana*, Lam. Legumen sesquipedale, 1¾-poll. diametro, lignosum, epicarpio lamelloso-fisso, sutura seminifera bimarginata, dorsali crassata. *Cathartocarpus Brazilianus*, Jacq. *C. grandis*, Pers. Brazilia, Surinamo, Cayennâ, Jamaicâ.—Tab. xvii. f. 1. Legumen in partes duas sectum (*ic. a specimine in Mus. Soc. Linn.*).

C. *Fistula*, Linn. Legumen brevi-stipitatum, bipedale, teres, rectiusculum, læve, suturis vix notatis, semina 90? *Cathartocarpus*, Pers. *Bactryrilobium*, Willd. India Orient. Ægypto.—Tab. xvii. f. 2. Fructus (cujus poll. 16 longitudinis desunt icone) cum semine.

C. *rhombifolia*, Rxb. Legumen bipedale, ½-poll. diametro, cylindricum. *Varietas præcedentis.*—Tab. xvii. f. 3 (*ic. ⅓-longit. nat.*).

C. *marginata*, Rxb. Legumen 9-pollicare, torulosum subfalcatum. *Cathartocarpus*, Don. *C. Roxburghii*, DC. India Orient.—Tab. xvii. f. 4.

CHAMÆFISTULA, *DC.* Legumen cylindricum v. subcompressum, lignosum, indehiscens v. submembranaceum, subdehiscens, septis transversis multiloculare, sæpe pulpa repletum. Semina compressa, inferiora semper horizontalia.

Xylobium, Vogel. *Legumen lignosum, indehiscens.*

C. *Baccillaris,* Linn. f. Legumen 20-pollicare cylindricum, glaberrimum, suturis notatis, subtorulosum. *Cathartocarpus,* G. Don. Surinamo.—TAB. XVII. f. 5 (*ic.* ½-*longit. nat.*).

Euchamæfistula, Vogel. *Legumen membranaceum v. coriaceum, subcylindricum, subdehiscens.*

C. *bicapsularis,* Linn. Legumen stipitatum 6-pollicare et ultra, glabrum, subtorulosum, suturis sulcatis, dissepimento longitudinali. *Senna,* Rxb. *C. sennoides,* Jcq. *C. Limensis,* Lam. *C. Alcaparillo,* H.B. K. *C. inflata,* Spr. *Chamæfistula inflata,* G. Don. Surinamo, India Orient. Peruvia, &c.—TAB. XVII. f. 6. Legumen, et ejus sectio (*a*) transversalis septum inter suturas transversale exhibens. Semen (*ic. a specimine in Mus. Soc. Linn.*).

C. *crotalarioides,* Kth. Legumen membranaceum, subinflatum, puberulum, 1-loc. septis transversis incompletis, semina compressa, supra basin podospermio affixa. *Chamæfistula,* G. D. Mexico. — TAB. XVIII. f. 1. Legumen et semen auctum (*ic. a Kunth*).

Herpetica, DC. *Legumen membranaceum, dorso foliaceo-alatum, dehiscens.*

C. *alata,* Linn. Legumen lineari-lanceolatum, mucronatum, glabrum, dehiscens, valvis dorso ala acuta foliacea auctis, intus septis transversis multiloculare, semina horizontalia, compressa, fere obcordata. *C. herpetica,* Jacq. *Senna,* Rxb. India Orient. Australasia, America calidiori.—TAB. XVIII. f. 2. Legumen, ic. sinistra lateraliter, dextra antice visum, infra, sectio aucta transversalis leguminis semen in situ et alas exhibens (*ic. a specimine in Mus. Soc. Linn.*).

Oncolobium, Vogel. *Legumen membranaceum, e compresso-tumidum, dehiscens. Semina inferiora horizontalia.*

C. *occidentalis,* Linn. Legumen brevi-stipitatum, 4-pollicare, 4-lin. lat. subfalcatum, compresso-torulosum, suturis marginatis, semina plurima, orbicularia. *C. planisiliqua,* Linn. *C. Caroliniana,* Walt. *C. ciliata,* Raf. *C. linearis,* Michx. *Senna orientalis,* Rxb. Ægypto et India Orient.—TAB. XVIII. f. 3. Legumen et semen.

PROSOSPERMA, Vogel. Legumen compressum, angustum, septis transversis multiloculare, subcoriaceum. Semina verticaliter compressa, valvis parallela.

C. *Tora,* Linn. Legumen lineari-compressum, quadrangulare, suturis marginatis, valvis oblique torulosis, semina subcylindrica. *C. obtusifolia,* Burm. *Cassia et Senna toroides,* Rxb. India Orient.—TAB. XVIII. f. 4. Legumina duo.

CHAMÆSENNA, *DC.* Legumen compressum septis transversis completis v. obsoletis, multiloculare, membranaceum v. coriaceum, dehiscens. Semina compressa, verticalia, in latitudinem fructûs extensa. *Vogel.*

C. *auriculata,* L. Legumen brevi-stipitatum, lato-lineare, membranaceum, 5-pollicare. *Senna,* Rxb. India Orient.—TAB. XVIII. f. 5.

C. *Mutisiana,* Kth. Legumen stipitatum, lineare, compressum, rostratum, margine incrassato, nitidum, 20-26-loculare. Semina oblonga, compressa. N. Granada.—TAB. XVIII. f. 6 (*ic. a Kth.*).

SENNA, *DC.* Legumen compressum, septis transversis completis v. obsoletis multiloculare, subcoriaceum, vix dehiscens. Semina compressa, verticalia, in latitudinem fructûs extensa.

C. *obovota,* Collad. Legumen plano-compressum arcuatum, utrinque cristato-turgidum. *C. Senna,* L. *Senna obtusa,* Rxb. Ægypto et Oriente.—TAB. XVIII. f. 7 (*ic. a Collad.*).

C. *acutifolia,* Delile. Legumen subfalciformi-oblongum medio utrinque turgidum glabrum. *C. lanceolata,* W. et Arn. India Orient. Ægypto.—TAB. XVIII. f. 8 (*ic. a Royle.*).

C. *Browniana,* Kth. Legumen brevi-stipitatum, lato-lineare, compressum, mucronatum, margine angusto-alatum. Mexico.—TAB. XVIII. f. 9 (*ic. Leg. immaturi a Kunth*).

C. *Richardiana,* Kth. Legumen stipitatum, lineari-compressum, inferne angustatum, apice rotundato-rostratum, transverse venosum glabrum. Orinoco.—TAB. XVIII. f. 10 (*ic. a Kunth*).

PSILORHEGMA, Vogel. Legumen compressum septis transversis completis v. incompletis multiloculare. Semina verticalia.

C. *Chatelainiana,* Gaud. ad Freyc. voy. Legumen lato-lineare, substipitatum glabrum. N. Holland. TAB. XVIII. f. 11. Legumen cum semine (*ic. l. c.*).

LASIORHEGMA, Vogel. Legumen coriaceum, cæt. ut in præcedenti.

C. *gracilis,* Kth. Legumen glabrum, lineari-oblongum subfalcatum, mucronatum, septis transversis 5-loculare. Orinoco.—TAB. XVIII. f. 12 (*ic. a Kth.*).

TAMARINDUS. *Tournef.*

Legumen stipitatum, oblongum, compressum, inter semina torulosum, evalve, intus transversim plurilocellatum. Epicarpium suberoso-crustaceum, fragile, sarcocarpium acidulo-pulposum, cum fibris 5 longitudinalibus (*scilicet*, 2 marginem superiorem convexum, 2 aliis remotioribus, et 1 marginem dorsalem) decurrentibus. Endocarpium membranaceum, v. coriaceum, loculos conficiens. Semina compressa, lævia, striâ circulari ocellata. Cotyledones carnosæ, basi inæquales, embryo rectus exalbuminosus. *Arbor Indica.*—Endl. 6778.

T. *Indica,* Linn. Legumen 6-7-pollicare, 1-1¼-poll. latum, rectiusculum v. frequentius falcatum, apice oblique acuminato, inter semina remote constrictum. Cortex griseo-glabrum, extus formâ fibri subconditi notatum, pulpa nigra v. fusca, semina 8-10, ad hylum oblique truncatum, ovato-quadrata. India Orient. et in Antillis culta; varietas,—*a, oxycarpa; b, melicarpa; c, rhodocarpa.*—Tab. xix. f. 1. Legumen integrum, alterum cortice denudatum, pulpam parte inferiori et endocarpium mediâ, loculos supremâ, cum fibris 3 exhibens. Semen et ejus sectio.

HÆMATOXYLUM, *Linn.*

Legumen membranaceum, compressum oblongo-cultriforme, suturis incrassatis cinctum, mono-trispermum, suturis indehiscentibus per medias valvas disruptum, valvis compresso-navicularibus, altera medio seminifera dimidio angustiore. Semina latissima, transverse lineari-oblonga, compressa, funiculo valvæ adnato medio affixa, parce albuminosa. *Arbor Americæ tropicæ.*—Endl. 6777.

H. *Campeachianum,* Linn. Legumen 1½-pollicare, 3-4½-lin. latum. Ins. India Occid.—Tab. xix. f. 2. Legumen integrum et dehissum, et valvula cum seminibus.

PARKINSONIA. *Plum.*

Legumen longissimum, utrinque acuminatum, inter semina contractum et compressum, moniliforme, uniloculare, bivalve. Semina plura, oblonga, pendula, umbilico basilari, albuminosa. *Arbuscula Americæ tropicæ.*—Endl. 6775.

P. *aculeata,* Linn. Legumen compressum, glabrum, 2-5-pollicare et ultra, hexaspermum, exocarpio reticulato ab endocarpio angustiore facile solubile. India Orient. et Cap. B. S. cult.—Tab. xix. f. 4. Legumen integrum, alterum cum semine et endocarpio partim averso.

POMARIA. *Cav.*

Legumen oblongum, compressum, glandulosum, bivalve, dispermum. Semina ovata. *Frutex Americæ tropicæ.*—Endl. 6771.

P. *glandulosa,* Cav.—Tab. xix. f. 3. Legumen integrum et apertum (*ic. a Cav.*).

PTEROLOBIUM. *R. Br.*

Legumen sessile, monospermum, margine postico superne in alam membranaceam, obliquam, obtusam, striatam producto. Semen ex apice cavitatis pendulum. *Arbor, v. frutex scandens Asiæ et Africæ tropicæ.* Kantuffa, *Bruce.*—Endl. 6769.

Pt. *lacerans,* R. Br. *Cæsalpinia lacerans,* Rxb. Abyssiniâ, &c.—Tab. xix. f. 5. Legumen integrum et apertum, et semen sectum (*ic. ex Herb. Schimperi*).

MEZONEURUM. *Desf.*

Legumen foliaceum compresso-planum, ovato-oblongum, indehiscens, oligospermum,

sutura seminifera in alam foliaceam, inferne deliquescentem producta. Semina . . . *Arbor Asiæ tropicæ.*—Endl. 6768.

M. *pubescens,* Desf. Legumen medio valvæ inflato-reticulatum, sutura dorsali convexa, seminifera in alam undulatam expansâ, seminibus fusco-glabris, compressis, approximatis. Java. (Vix differt a *M. glabro,* fructu ampliori et latiori, 6-pollicari, 2-poll. lato, seminibusque remotioribus.)—TAB. XIX. f. 6. Legumen (*ic. a Desf.*).

M. *Sumatranum,* W. et A. Legumen oblongo-compressum, sutura seminifera late membranaceo-alata, semina 3-4, parva, ovato-compressa, lævia. *Cæsalpinia Sumatrana,* Rxb. Sumatra.—TAB. XIX. f. 7. Legumen et ejus sectio, cum semine (*ic. a Rxb. ined.*).

M. *cucullatum,* W. et A. Legumen angusto-alatum lineari-oblongum, compressum, 1-2-spermum. *Cæsalp. cucullata,* Rxb. Peninsula Indiæ Orient.— TAB. XXII. f. 1. Legumen et sectio ejusdem (*ic. a Rxb. ined.*).

POINCIANA. *Linn.*

Legumen lineari-oblongum, compressum, siccum, polyspermum, isthmis transversis spongiosis inter semina pluriloculare, bivalve. Semina lenticulari-compressa, albuminosa. *Frutex, v. arbuscula Asiæ et Americæ tropicæ.*—Endl. 6766.

P. *pulcherrima,* Linn. Legumen glabrum, basi et apice oblique truncatum, 8-10-spermum, valvulis elastice dehiscentibus ; folia primordalia inter cotyledones conspicua. *Cæsalpinia pulcherrima,* Sw. India Orient.—TAB. XIX. f. 8. Legumen integr. et apertum, sectio seminis transversalis et cotyledon.

CÆSALPINIA. *Plum.*

Legumen suboblongum, compressum, inerme, lignosum v. spongiosum, isthmis inter semina transversim pluriloculare, di-tetraspermum, bivalve. Semina compressa, albuminosa. Embryo rectus. *Arbores, v. arbusculæ Asiæ, Africæ, et Americæ tropicæ.*—Endl. 6765.

C. *Sappan,* Linn. Legumen elliptico-oblongum compresso-planum, lignosum, glabrum, apice oblique truncatum, hinc obtusum, illinc acutum, v. cuspidatum, uniloculare. Semina 3-5, ovato-oblonga, compressa. Peninsula Indiæ Orient.—TAB. XX. f. 1.

C. *sepiaria,* Rxb. Legumen 3-pollicare, 8-lin. lat. membranaceum, lineari-oblongum, glabrum, turgidum, cuspidato-apiculatum, 7-8-spermum, isthmis cellulosis fugacibus uniloculare. Semina ovato-globosa, maculata. Peninsula Indiæ Orient.—TAB. XX. f. 2. Legumen integrum et apertum.

C. *digyna,* Rottl. Legumen glabrum, ovato-oblongum, acuminatum, ad semina torulosum, 2-3-spermum. *Cæsalp. oleosperma,* Rxb. Peninsula Indiæ Orient.—TAB. XX. f. 3 (*ic. a Rxb. ined.*).

C. *resupinata,* Rxb. Legumen oblongum, turgidum, margine incrassato, ad semina torulosum. Semina 2-3, rotunda, lævia, fusca. Moluccis.—TAB. XX. f. 4.

C. *paniculata,* Desf. Legumen ovale, basi acutum, apice cuspidatum. Semen solitare, ovatum. India Orient.—TAB. XX. f. 5 (*ic. a Rxb. ined.*).

C. *Mimosoides,* Lam. Legumen oblique truncatum, cuspidatum, turgidum, pilosum, 2-spermum. *C. Simora,* Ham. Malabaria.—TAB. XX. f. 6. Legumen cum semine et ejus sectio.

C. *coriaria,* Willd. Legumen oblongum, *lateraliter* incurvum spongiosum, intus inter semina concretum, 5-6-spermum. *Poinciana coriaria,* Jacq. *C. Thomæ,* Spreng. Ins. Indiæ Occid. Legumina *Libidibi* dicta ad condensanda coria adhibentur (*DC.*).—TAB. XX. f. 7.

C. *tortuosa,* Rxb. Legumen lineari-oblongum, ad semina torulosum, contortum, semina 2-5, dura, lævia, nigro-fusca. Sumatra.—TAB. XX. f. 8. Legumen cum semine (*ic. a Rxb. ined.*).

COULTERIA. *H. B. K.*

Legumen oblongum, compressum, subspongiosum, vix dehiscens, mono-tetraspermum, isthmis inter semina transversim pluriloculare. Semina lenticularia, albuminosa. Embryonis recti radicula brevis exserta. *Frutices Americæ tropicæ.*—Endl. 6764.

C. *horrida,* H. B. K. Legumen oblique oblongum, hinc subrectum, inde ubi semina insident arcuatum

(cultriforme), apice rotundatum, planum, siccum, uniloculare? oligospermum, 2½-poll. longum, 10-11-lin. lat. glabrum. Semen obovato-subrotundum, læve, hylo subbasilari. Carthagenâ.—TAB. XXII. f. 4. Legumen integrum et apertum cum seminis sectione transversali (*ic. a H. B. K.*).

C. *tinctoria,* H. B. K. Legumen oblongo-obtusum, 3-4-pollicare, compressum, rectum, ad seminum sedes torulosum, glabrum, vix dehiscens, 4-loculare, epicarpio spongioso, humectato glutinoso, endocarpio loculos vestiente membranâ lævissima. Semina ovato-elliptica compressa, lævia, fusca, glabra. *Cæsalp. pectinata,* Cav. *C. tinctoria,* Domb. *Dividiri* v. *Bresil* incolarum. Carthagenâ.—TAB. XXII. f. 3. Legumen apertum (*ic. a H. B. K.*).

GUILANDINA. *Juss.*

Legumen ovatum, ventricoso-compressum, extus echinatum, 1-3-spermum, bivalve. Semina subglobosa, ossea, nitida, exalbuminosa, cotyledones crassæ. *Arbores v. frutices Asiæ tropicæ.*—Endl. 6763.

G. *Bonduc,* Linn. Legumen stipitatum, unilateraliter stylo apiculatum, suturâ seminiferâ breviori. Semina funiculis longis suffulta. India Orient. et Arabiâ.—TAB. XX. f. 9.

G. *Wallichiana,* Grah. Legumen stipitatum, 5-poll. long. 3-poll. lat. ovato-rotundum, compressum, fortiter echinatum (valvis fusco-scabris, lignosis), sutura dorsali dehiscens. Semina (vix matura) 3-4. Singapur.—TAB. XXII. f. 2. Legumen suturâ dorsali *apertum* (*ic. a specimine unico, ut supra nuncupato, in Mus. Soc. Linn. ex Herb. Wall.* 5805). (Plantæ specimen in herb. permediocre, glabrum, foliis 4-6-jugis? foliolis 2-poll. long. 1-lat. elliptico-ovatis, coriaceis, basi subobliquis, venosis.)

GYMNOCLADUS. *Lam.*

Legumen oblongum, crassum, indehiscens, intus pulposum, polyspermum. Semina depresso-globosa, subalbuminosa. Embryonis recti cotyledones subfoliaceæ, radicula exserta. *Arbor boreali-Americana.*—Endl. 6757.

G. *Canadensis,* Lam. Legumen coriaceum brevi-stipitatum, 6-8-poll. long. 1½-2-poll. lat. compressum, acuminatum, suturâ seminifera convexa sulcata dehiscens, dorsali rectiuscula, venasque transversales emittente. Semina 6-8-nigra, funiculis longis suffulta. *Guilandina dioica,* Linn. Canadâ, &c.—TAB. XXI. f. 1. Legumen cum semine. (*A specimine in Museo Soc. Linn.*)

GLEDITSCHIA. *Linn.*

Legumen continuum, nunc isthmis inter semina transversim pluriloculare, intus pulposum, nunc uniloculare, siccum, mono-polyspermum. Semina compressa, exalbuminosa. Embryonis recti cotyledones carnosulæ, radicula exserta. *Arbores Americæ borealis et Asiæ mediæ.*—Endl. 6756.

GL. *triacanthos,* Linn. Legumen lineari-oblongum compresso-glabrum, 10-14-spermum. Semina ovata, lævia. Carolina et Virginia.—TAB. XXI. f. 2. Fructus, *varietas inermis.* (*A specimine in Museo Soc. Linn.*)

GL. *monosperma,* Walt. Legumen stipitatum, plano-compressum, subrotundum, monospermum. *Gl. Carolinensis,* Lam. *Gl. triacantha,* Gært (*a quo ic.*).—TAB. XXI. f. 3. Legumen, valvula cum semine, sectio transversalis seminis, embryo denudatus albumini adhærens, et cotyledon cum plumulâ.

SCLEROLOBIUM. *Vogel.*

Legumen sessile, compresso-planum, ellipticum, lignosum, indehiscens, medio monodispermum. Semen compressissimum, testâ dura, nitida, albuminosum. Embryonis recti cotyledones planæ, subfoliaceæ, radicula exserta. *Arbor Braziliensis.*—Endl. 6755.

SC. *chrysophyllum,* Poepp. et Endl. t. 266.—TAB. XXI. f. 4. Legumen et semen (*ic. l. c.*).

MORA. *Bth.*

Legumen coriaceo-lignosum, oblongum, indehiscens, abortu monospermum. Semen magnum reniforme, exalbuminosum. Embryonis recti cotyledones crassissimæ sublignosæ, radicula conica, plumula evoluta. *Arbor Guianensis.*—Endl. 6754.

M. *excelsa,* Bth.—TAB. XXI. f. 5. Legumen et cotyledon cum plumulâ (*ic. e Transact. Linn.*).

MORINGA. *Juss.*

Capsula siliquæformis, rostrata, tri-polygona v. costata, torulosa, unilocularis, trivalvis, valvis medio semina uniseriata, dissepimentis transversis fungosis distincta gerentibus. Semina ovato-trigona, angulis apteris v. in alam membranaceam expansis, chalaza apicali suberosa. Embryonis exalbuminosi, orthotropi cotyledones plano-convexæ, carnosæ, radicula brevissima, supera, plumula polyphylla. *Arbor Asiæ tropicæ.*—Endl. 6811.

M. *pterygosperma,* Gærtn. Legumen triquetrum pedale, valvis 1-poll. latis, intus spongiosis v. cellulosis, semina trigona, angulis in alam expansis, pendula. *Guilandina Moringa,* Linn. *Hyperanthera Moringa,* Vahl. *M. oleifera,* Lam. *Anoma Moringa,* Lour. *M. Zeylanica,* Pers. India Orient. et in Americâ calid. cult.—TAB. XXII. f. 5. Legumen integrum, et pars alterius valvulâ unâ ablata, semina in situ exhibens; *a,* semen, vix magn. nat.; *b,* idem testa suprema parte remota, ut in *c*; *d,* sectio nuclei transversalis.

M. *aptera,* Gært. Fructus leguminiformis rostratus, obscure 3-gonus, torulosus, longitudinaliter sulcatus, 6-costatus, costis 3 placentiferis angustioribus, 3 alternis suturæ longitudinali respondentibus, 1-locularis, 3-valvis, valvis medio septiferis, septo accrescente fungoso, albo, in dissepimento transversim extenso. Semina ovata v. turbinato-trigona, ad apicem hylo suberoso notata, testa subcrustacea. *M. Zeylanica,* Linn. *Balanus myrepsica,* Belon. Ægypto, Palestinâ.—TAB. XXII. f. 6, pars fructûs, valvula unâ remota, semen hylo *infra,* et ejusdem sectio transversalis (*ic. et descript. a J. Decaine Pl. d'Egypte*).

SOPHOREÆ. *DC.*

Legumen indehiscens v. bivalve. Embryonis cotyledones foliaceæ v. crassiusculæ, radicula recta v. incurva.—*Endl.* p. 1307.

CERCIS. *Linn.*

Legumen oblongum, tenue compressum, suturâ seminifera subalatum, alterâ dehiscens, polyspermum. Semina obovata, albuminosa. Embryonis recti cotyledones planæ, radicula brevis, plumula inconspicua. *Arbor Europæ Australis et Americæ borealis.*—Endl. 6750.

C. *siliquastrum,* Linn. *Siliquastrum orbiculatum,* Mœnc. Europa Australis.—TAB. XXIII. f. 1. Legumen integrum et apertum cum seminis sectione (*ic. a Gærtn.*). Fructus *C. Canadensis* longius pedicellatus.

ORMOSIA. *Jacks.*

Legumen ovali-oblongum, compressum, lignosum, vix dehiscens, abortu mono-oligospermum. Semina ovato-suborbicularia, compressa. Embryonis radicula fere recta. *Arbores Americæ tropicæ.*—Endl. 6747.

O. *coccinea,* Jacks. Legumen durissimum, nitidum, basi oblique attenuatum, apice rostratum, rarius 2-spermum. Semina nitida coccinea, cum maculâ nigra. *Robinia coccinea,* Aubl. Guiana et Brazilia. TAB. XXIII. f. 2. Legumen monospermum integrum, cum valvulâ fructus dispermi (*ic. e Trans. Soc. Linn.*).

O. *dasycarpa,* Jacks. Legumen stipitatum, ferrugineo-tomentosum, semina ut in priore. *Sophora monosperma,* Sw. Ins. Caribæis.—TAB. XXIII. f. 3.

CASTANOSPERMUM. *A. Cunning.*

Legumen stipitatum, oblongo-cylindraceum, bivalve, polyspermum, inter semina pulposum. Semina depresse subglobosa, nitida. Embryonis cotyledones hemisphæricæ, carnosæ, radicula brevissima, recta. *Arbor N. Hollandiæ orientalis.*—Endl. 6745.

C. *Australe*, A. Cunn. Legumen 6-7-pollicare, 1¾-poll. diametro, punctato-planum, valvis coriaceis, ad semina tumidis intus pulpa nivea repletis. Semina 3-4, ovato-globosa, fusco-nitida, iisque *Castaneæ vescæ* simillima, hylo lineari-pallido.—Tab. xxiii. f. 4. Legumen et valva cum seminibus in situ; semen et nucleus exsiccatione diminutus (*ic. a specimine in Mus. Soc. Linn.*).

GOURLIEA. *Gill.*

Legumen oblongo-ovoideum, nucamentaceum, indehiscens, monospermum, endocarpio membranaceo transversim plicato. Semen reniformi-oblongum. Embryonis radicula brevissima, vix incurva. *Frutex Chilensis.*—Endl. 6746.

G. *decorticans*, Gill. *MS.*—Tab. xxiv. f. 1. Legumen integrum, magn. nat. apertum auctum (*ic. ex Hook. Bot. Misc.*).

MACROTROPIS. *DC.*

Legumen oblongo-ellipticum, utrinque attenuatum, coriaceo-lignosum, tri-tetraspermum, isthmis inter semina pulposis interstinctum, bivalve. Semina rotundato-tetragona, compressiuscula. Embryonis radicula recta. *Frutex Sinensis.*—Endl. 6744.

M. *emarginata*, Walp. *MSS.* *Anagyris fœtida*, Loureir. *Laya*, Hooker et Arn.—Tab. xxiii. f. 5 (*ic. ab Hooker* in Beechy).

VIRGILIA. *Lam.*

Legumen oblongum, compressum, coriaceum, indehiscens, inter semina farctum, suturis obtusissimis apterum. Semina ovato-reniformia, subcompressa, strophiolata. Embryonis radicula inflexa. *Frutices v. arbores Capenses.*—Endl. 6741.

V. *Capensis*, Lam. Legumen tomentosum. *Podalyria Capensis*, Andr. *Hypocalyptus*, Thunb. Cap. B. Spei.—Tab. xxiv. f. 3.

CALPURNIA. *E. Mey.*

Legumen oblongo-lineare, plano-compressum, membranaceum, indehiscens, ad suturam superiorem angustissime alatum, pleiospermum, isthmis inter semina intus distinctum. Semina compresso-reniformia strophiolata. Embryonis radicula inflexa. *Frutex Capensis et Indicus.* Endl. 6740.

C. *aurea*, Bth. *Virgilia aurea*, Lam. *Podalyria aurea*, Willd. India Orient. Abyssinia.—Tab. xxiv. f. 4, *ic. a Lam.* et f. 2, nomine Virgiliæ aureæ (*ic. a Wght. Ic.*).

SOPHORA. *Linn.*

Legumen moniliforme, indehiscens, apterum, polyspermum. Semina subglobosa, estrophiolata. Embryonis radicula incurva v. rectiuscula. *Arbores, frutices, v. herbæ Asiæ mediæ et tropicæ, et Americæ boreali-calidioris, &c.*—Endl. 6738.

S. *glauca*, Lesch. Neelgherris, Indiâ Orient.—Tab. xxiv. f. 5.

S. *tomentosa*, Linn. Legumen distincte moniliforme. *S. crassifolia*, Jaum. India Orient.—Tab. xxiv. f. 6.

S. *robusta*, Rxb. Assam.—Tab. xxiv. f. 7. Legumen et semen transversim et longitudinaliter sectum (*ex Wght. Ic.*). Species indescripta ad Ormosiam amandata a Doct. Wight in Horto Suburbano Calcuttensi. *Voigt.*

EDWARDSIA. *Salisb.*

Legumen stipitatum moniliforme, tetrapterum, uniloculare, bivalve, polyspermum. Semina subglobosa, estrophiolata. Embryonis radicula subincurva. *Frutex v. arbuscula N. Zeelandiæ et Ins. Borbonic.*—Endl. 6737.

ED. *grandiflora,* Salisb. *Sophora tetraptera,* Ait.—TAB. XXIV. f. 8 (*ic. a Lam.*).

MYROSPERMUM. *Jacq.*

Legumen stipiti basi nudo, apice lato impositum, membranaceum, hinc stylo apiculatum, indehiscens mono-dispermum. Semina subglobosa, testa in succum balsameum colliquata. Embryonis cotyledones crassæ, planæ, radicula incurva. *Arbores v. frutices Americæ tropicæ.* Endl. 6736.

M. *Peruiferum,* DC. Legumen subcoriaceum stipite incluso fere 4-poll. longum. *M pedicellatum,* Lam. Peruviâ, Mexico, Columbiâ.—TAB. XXIV. f. 9 (*ic. a Lam.*).

M. *frutescens,* Jacq. Legumen lineare, bipollicare, alâ reticulato-venosâ, stylo persistente. Semen unum, oblongo-reniforme, compressum.—TAB. XXIV. f. 10. Legumen et semen.

DALBERGIEÆ. *Bth.*

Legumen membranaceum, coriaceum, suberosum v. drupaceum, inarticulatum, sponte non dehiscens, etsi nonnunquam maturitate in valvulas duas divisible sit, sæpe alâ membranacea appendiculatum. Semina solitaria v. pauca, ovata, oblonga v. reniformia, transversa v. pendula, embryone recto v. incurvo, radicula sæpius brevi, recta, incurva v. inflexa.—Bth. *Comment. de Leguminosarum Generibus.*

DIPTERIX. *Schreb.*

Legumen drupaceum, crassum, ovoideum, indehiscens. Semen ovato-oblongum, pendulum, embryone recto, radiculâ supera. *Arbores Americæ tropicæ.*—Endl. 6728.

D. *odorata,* Willd. Drupa stipitata, ovoidea, $2\frac{1}{2}$-poll. 1-poll. diametro, epicarpio derasili tenui; mesocarpio fibroso, endocarpio lapideo donata. Semen atro-rugosum suaveolens, funiculo longo infra apicem drupæ affixo, pendulum. *Baryosma Tongo,* Gærtn. *Coumarouna odorata,* Aubl. Guianâ, Brazilia.—TAB. XXV. f. 1. Legumen integrum apice epicarpio denudatum; *a,* valvula cum semine; *b,* semen; *c,* sectio ejusdem.

D. *oppositifolia,* Willd. Drupa subrotunda, depressa, coriâcea, bivalvis. Semen unicum, complanatum, subrotundum. *Taralea,* Aubl. *Baryosma oppositifolia,* Pers. Guianâ.—TAB. XXV. f. 2. Drupa cum semine (*ic. ex Aubl.*).

EUCHRESTA. *Bennett.*

Legumen longe stipitatum, ovale, chartaceum indehiscens, monospermum. Semen pendulum, integumentis coalitis a nucleo solutis quasi arillatum. Embryonis exalbuminosi cotyledones crassæ, carnosæ, radicula recta, cotyledonum axi obliqua, inclusa. *Frutex Javanicus.*—Endl. 6727.

E. *Horsfieldii,* Bennett.—TAB. XXV. f. 3. Legumen; *a,* semen, *b, c,* cotyledones.

ANDIRA. *Lam.*

Legumen drupaceum, ovoideum v. obovoideum, monospermum. Semen pendulum, radicula brevissima, recta, supera. *Arbores Americæ tropicæ.*—Endl. 6726.

A. *stipulacea,* Bth. *Lumbricidia legalis,* Vell. *Fl. Fl.* vii t. 105. Brazilia.—TAB. XXV. f. 4. Drupa ejusdem sectio et semen (*ic. l. c.*).

GEOFFROYA. *Jacq.*

Legumen drupaceum, ovato-ellipticum, molle, putamine lignoso, bivalvi, monospermo. Semen inversum. Embryonis exalbuminosi recti, radicula supera. *Arbores Americæ tropicæ.* Endl. 6725.

G. *superba,* H. et Bonpl. Drupa ovata, tomentosa, apice brevi-acuminata, sutura seminifera sulcata. Epicarpium coriaceum, endocarpium durissimum. Fl. Amazonum rip.—Tab. xxv. f. 5; *a,* drupa epicarpio parte superiori ablato, endocarpium exhibens; *b,* sectio longitudinalis, semen in situ (*ic. ab H. et Bonpl. pl. eq.*).

PHELLOCARPUS. *Bth.*

Legumen sessile, oblongum v. pyramidatum, crassum, suberosum, indehiscens, longitudinaliter 5 alatum v. costatum (*et 5 costatum,* Bth.), monospermum. Semen reniforme. Embryonis radicula inflexa. *Arbores Americæ tropicæ.*—Endl. 6724.

Ph. *laxiflorus,* Bth. *Pterocarpus cultratus,* Vell. *Fl. Fl.* vii. t. 95. Brazilia.—Tab. xxv. f. 6. Legumen et semen (*ic. l. c.*).

PISCIDIA. *Linn.*

Legumen stipitatum, lineare, compressum, inter semina torulosum, sutura utraque bialata, alis cruciatim patentibus, indehiscens, uniloculare, di-pentaspermum, continuum v. hinc inde inter semina constrictum. Semina oblongo-reniformia, radicula uncinato-inflexa. *Arbores Americæ tropicæ.*—Endl. 6723.

P. *Erythrina,* Linn.—Tab. xxv. f. 7 (*ic. a Lam.*).

PLATYMISCIUM. *Vogel.*

Legumen stipitatum oblongum, planum, membranaceum, indehiscens, obscure reticulatum, suturis marginalibus tenuibus v. vix incrassatis, medio non induratum, monospermum. Semen compressum, reniforme. Embryo radicula brevi, inflexa. *Arbores v. frutices Brazilienses.*—Endl. 6720.

Pl. *luteum,* Bth. *Pterocarpus luteus,* Vell. *Fl. Fl.* vii. t. 92. Corcovado, prov. Rio Janeiro.—Tab. xxv. f. 8 (*ic. l. c.*).

PHYLLOCARPUS. *Riedel.*

Legumen tenue, phylloideum, coriaceum, lanceolatum apice adunco, indehiscens, sutura dorsali exalata subrecta, fructifera arcuata superne cristato-marginata. Semen 1, rarissime 2. *Arbor Braziliensis.*—Walp. 5, p. 546.

Ph. *Riedelii,* Tulasne. *Phyllocarp. pterocarpus,* Riedel. MSS. *Lonchocarpus pterocarpus,* DC.—Tab. xxvi. f. 1 (*ic. ex Archiv. du Mus. d'Hist. Nat.* iv.).

MISCOLOBIUM. *Vogel.*

Legumen oblongum subrectum, plano-compressum, membranaceum, indehiscens, læve v. obsolete reticulatum, medio haud induratum, suturis margine parum conspicuis, monodispermum. Semina magna, reniformia. Embryonis radicula brevi, inflexa. *Arbores Brazilienses.*—Endl. 6719.

M. *violaceum,* Vogel. Legumen 1½-pollicare v. parum longius, obtussissimum, basi angustatum, stipite 6-8-lin. longo. *Pterocarpus niger,* Vell. *Fl. Fl.* vii. t. 91. Brazilia.—Tab. xxvi. f. 2 (*ic. l. c.*).

TRIOPTOLEMEA. *Mart.*

Legumen samaroideum, oblongum, membranaceum, reticulato-venosum, suturis corneis, medio induratum, mono-spermum. Semen reniforme, compressum. Embryonis radicula inflexa. *Arbores Brazilienses.*—Endl. 6718.

T. *montana,* Mart. *msc.* Legumen lato-oblongum. *Pterocarpus frutescens,* Vell. *Fl. Fl.* vii. t. 96. Prov. Rio Janeiro.—TAB. XXVI. f. 3 (*ic. l. c.*).

CYANOBOTRYS. *Zuccar.*

Legumen stipitatum, lignosum, cylindricum, acutum, indehiscens, 1-3-sperm. inter semina diaphragmatibus lignosis interceptum, ibique subconstrictum. Semina elliptico-glabra, crassa, hilo laterali concavo. Testa crassa lapidea, cotyledones crasso-carnosæ, radicula brevis, conica, recta, plumula diphylla, foliolis simplicibus. Albumen nullum. Embryo heterotropus.—*Act. Acad. Reg. Monac.* iv.

C. *Mexicana,* Zucc. Legumen lana brevissima derasili tomentosum.—TAB. XXVI. f. 4. Legumen integrum, idem apertum. Semen *sinistro,* facie visum, *medio,* longitudinaliter sectum, *dextro* lateraliter visum (*ic. l. c.*).

DALBERGIA. *Linn.*

Legumen stipitatum, membranaceum, compresso-planum, reticulato-venosum, oblongum, utrinque angustatum, valvis inter semina connatis, indehiscens, abortu mono-dispermum. Semina compressa, distantia. Embryonis radicula inflexa. *Arbores v. frutices Asiæ tropicæ.* Endl. 6717.

D. *latifolia,* Rxb. Legumen stipitatum oblongo-lanceolatum, 2-4-spermum. Semen reniforme, compressum. Peninsula Indiæ Orient.—TAB. XXVI. f. 5 (*ic. a Rxb.*).

D. *paniculata,* Rxb. Legumen ovali-lanceolatum, 1-2-spermum. India Orient. — TAB. XXVI. f. 6. Legumen 1 et 2-spermum (*ic. a Rxb.*).

D. *frondosa,* Rxb. Legumen stipitatum lato-lineare, utrinque attenuatum, 1-3-spermum, glabrum, suturis apteris. Semen oblique reniforme, compressum, læve. India Orient.—TAB. XXVI. f. 7. Legumen apertum et embryo (*ic. a Rxb. ined.*).

D. *Melanoxylon,* Guill. et Perr. Legumen elliptico-lanceolatum, acutum 1-2-spermum, valvis crustaceis, marginibus foliaceis. Semina reniformia. Senegambia.—TAB. XXVI. f. 8 (*ic. l. c.*).

D. *marginata,* Rxb. Legumen sessile, oblique lanceolatum, compressum, reticulatum. Semen solitare reniforme, 1-poll. long. $\frac{3}{4}$-latum. Silhet.— TAB. XXVI. f. 9. Legumen et semen in situ (*ic. a Rxb. ined.*).

D. *reniformis,* Rxb. Legumen reniforme, crassum, compressum; interdum biarticulatum. Semen reniforme. Silhet.—TAB. XXVI. f. 10 (*ic. a Rxb. ined.*).

D. *robusta,* Rxb. Legumen lineare, 2-3-poll. long. $\frac{1}{2}$-poll. lat. 4-8-spermum, nigrum, sutura seminifera costata. Semina lævia, lenticularia. *D. Krowee,* Rxb. Assam et Nepalia.—TAB. XXVI. f. 11. Legumen apertum (*ic. a Rxb. ined.*).

D. *tamarindifolia,* Rxb. Legumen medio tumidum, scabrum. Assam. —TAB. XXVI. f. 12. Legumen et semen in situ (*ic. ab Wght. ic.* 242).

D. *rimosa,* Rxb. Legumen stipitatum, basi et apice acuminatum, 1-2-spermum, ad seminis sedem reticulatum. Silhet et Assam.—TAB. XXVI. f. 13. Legumen apertum (*ic. a Rxb. ined.*).

D. *Oojeinensis,* Rxb. Legumen lineari-oblongum, obtusum, villoso-reticulatum. Semina 1-3-reniformia, compressa. India Orient.—TAB. XXVI. f. 14. Legumen integrum et apertum (*ic. a Rxb. ined.*).

D. *Zeylanica,* Rxb. Legumen longe stipitatum, lato-lineare, 1-3-spermum, ad semina tumidum. Zeylania.—TAB. XXVII. f. 1. Legumen 1 et 2-spermum (*ex Herb. Wall.* 5847).

D. *Sissoo,* Rxb. Legumen stipitatum, lineari-lanceolatum, compressum, membranaceum, 2-3-spermum. Semina reniformia. *Pterocarpus Sissoo,* Rxb. *ined.* India Orient.—TAB. XXVII. f. 2 (*ex Herb. Wall.* 5850).

D. *foliosa.*—Legumen stipitatum, lato-lineare, apice rotundato, medio turgido reticulato: vix a fructu *D. tingentis* distinguendum.—TAB. XXVII. f. 3 (*ic. ex Herb. Wall.* 5856).

D. *cultrata.*—Legumen stipitatum, lato-lineare, 1-2-spermum.—TAB. XXVII. f. 4 (*ic. ex Herb. Wall.* 5861).

MILLETIA. *W. et Arn.*

Legumen compresso-planum, ellipticum v. lanceolatum, acutum, suturis incrassatis, apteris, indehiscens, mono-dispermum, valvis inter semina cohærentibus. Semina . . . *Frutices scandentes v. arbores Asiæ tropicæ.*—Endl. 6715.

M. *piscidia,* W. et A. Legumen stipitatum, 3-5-poll. long. 1½-2½-poll. latum, basi apiceque attenuatum, reticulatum. *Pong. pendula ?* Wall. Catal. 5902. *Galedupa piscidia,* Rxb. Silhet, Assam.—TAB. XXVII. f. 5. Legumen et semen (*ic. a Rxb. ined.*).

M. *rubiginosa,* W. et Arn. Legumen lineari-lanceolatum, acuminatum. India Orient.—TAB. XXVII. f. 6 (*ic. ab Wght. Ic.*).

NEUROSCAPHA. *Tulasne.*

Legumen lignosum, indehiscens, 1-2-spermum, utrinque attenuatum, rectum, sutura carinali tenui incurva, vexillari recta incrassata marginibusque ampliatis, elevatis, subcyathiformi. Semina oblongo-reniformia compressa, testa crustacea, hilo medio marginali elliptico, cotyledonibus crassis, quarum commissura caudicula incurvata hilo proxima incumbit. *Arbores Brazilienses.*—Walp. 5, p. 544.

N. *Guilleminiana,* Tulasne. Legumen brevi stipitatum, venis 3-4-primariis margine carinali late curvato approximatis.—TAB. XXVII. f. 7. Legumen *dextro* lateraliter visum, *sinistro,* a margine carinali visum, embryo auctus (*ic. ex Arch. du Mus.* iv.).

PONGAMIA. *Lam.*

Legumen coriaceum, compressum, ovato-oblongum, recurvato-rostratum, indehiscens, mono-dispermum, valvis intus concavis. *Arbores v. frutices scandentes Asiæ tropicæ.*—Endl. 6713.

P. *atro-purpurea,* Wall. Legumen magnum, 3-4-poll. læve, fuscum, ovato-lanceolatum, acutum, margine dorsali gibboso, convexo. Semen solitare, ovatum, convexum, funiculo brevi.—TAB. XXVII. f. 8 (*ic. a Wall. Pl. As. rar.*).

P. *elliptica,* Wall. Legumen sessile, 2-3-poll. longum, oblongo-lanceolatum v. sub-ellipticum acutum, marginibus latiusculis, 1-2-spermum. Semen reniforme, nitidum.—TAB. XXVII. f. 9 (*ic. a Wall. Pl. As. rar.*), et f. 10, *ex Wght. Ic.*

P. *glabra,* Vent. Legumen ellipticum, lignosum, glabrum, acuminatum, suturis incrassatis, seminifera recta, dorsali arcuata. Semen oblongum, compressum. *Galedupa Indica,* Lam. *Robinia mitis,* Linn. *Dalb. arborea,* Willd. Peninsula Indiæ Orient.—TAB. XXVII. f. 11. Legumen integrum et apertum, et seminis sectio.

P. *uliginosa,* DC. Legumen brevi v. longe stipitatum, oblongum v. suborbiculare, coriaceum, reticulatum, compressum, breve uncinato-acuminatum, sutura seminifera latiori dehiscens, 2-3-poll. longum, 1-1¾-poll. latum. Semen suborbiculare. *Galedupa,* Rxb. *Robinia,* Willd. *Dalbergia heterophylla,* Willd. Peninsula Indiæ Orient.—TAB. XXVII. f. 12 (*ic. suprema a Rxb. ined.*).

?P. *macrophylla,* —. *Robinia macrophylla,* Rxb.—TAB. XXIX. f. 10, *ic. a Rxb. ined.*

?P. *fruticosa,* Grah ? *Wall. Catal.* 909. *Robinia fruticosa,* Rxb. Nepalia.—TAB. XXIX. f. 11.

BRACHYPTERUM. *Bth.*

Legumen sessile lineari-lanceolatum, di-trispermum, indehiscens, sutura seminifera anguste marginata. Semina . . . *Frutex Indicus.*—Endl. 6712.

B. *scandens,* Bth. Legumen lineari-lanceolatum, membranaceum, 2-3-spermum. Semen reniforme, radicula inflexa, cotyledonibus viridibus. *Dalbergia scandens,* Rxb. India Orient.—TAB. XXVII. f. 13 (*ic. a Rxb.*).

ATELEIA. *DC. Moç. et Sess.*

Legumen stipitatum, compressum, membranaceum, indehiscens, sutura vexillari recta, angusto-alata, carinali convexa, aptera. Semen . . . *Arbores Americanæ.*—Endl. 6711.

A. *Peltaria,* Moc. et Sess. ? Hæc species ad Viborgiam relata est a *Bth.* *Pterocarpus Ateleia,* DC. Mexico.—TAB. XXVIII. f. 1 (*ic. a DC.*).

A. *gummifera,* Moc. et Sess. ? *Pterocarpus gummifer,* Bert. St. Domingo.—TAB. XXVIII. f. 2 (*ic. a DC.*).

MACHÆRIUM. *Pers.*

Legumen stipitatum, compressum, coriaceum, indehiscens, subexcisum, hinc convexum, antice et apice in alam oblongam v. cultriformem membranaceam, margine exteriore incrassatam, legumine ipso longiorem desinens. Semen reniforme, radicula inflexa. *Arbores Americæ tropicæ.*—Endl. 6710.

M. *ferrugineum,* Pers. Legumen rectiusculum, verrucosum, subvelutinum. *Nissolia Quinata,* Aubl. Guiana.—TAB. XXVIII. f. 3. Legumen et semen (*ic. ex Aubl.*).

M. *legale,* Bth. Legumen rectum vix cultriforme, tomentosum. *Nissolia legalis,* Vell. *Fl. Fl.* vii. t. 84. Prov. Rio Janeiro.—TAB. XXVIII. f. 4 (*ic. l. c.*).

M. *incorruptible,* Bth. *Nissolia incorrubtibilis,* Vell. *Fl. Fl.* viii. t. 82. Brazilia.— TAB. XXVIII. f. 5 (*ic. l. c.*).

DREPANOCARPUS. *C. F. W. Mey.*

Legumen stipitatum, fungoso-coriaceum, indehiscens, reniforme v. cochleato-falcatum, planum, apterum, monospermum. Semen magnum, reniforme, radicula inflexa. *Arbores v. frutices Americæ tropicæ.*—Endl. 6709.

D. *lunatus,* E. Mey. Legumen reticulatum. Semen ad suturam breviorem affixum. *Pterocorpus lunatus,* Linn. f. *P. apterus,* Gærtn. *Nephrosis aculeata,* Rich. *Orucaria lunata,* Juss.—TAB. XXVIII. f. 6; *a,* e Mus. Soc. Linn.; *b,* legumen integrum; *c,* legumen apertum semen exhibens (*b* et *c,* a Gærtn.).

AMPHYNEMIUM. *H. B. K.*

Legumen sessile compressum, indehiscens, orbiculare v. oblongum, ala membranacea, lata cinctum, basi cordatum, axi incurvo v. rectiusculo, disco tumido, monospermum. Semen subreniforme, radicula uncinato-inflexa. *Arbores Americæ tropicæ.*—Endl. 6708.

A. *Rhorii,* H. et K. *Pterocarpus Rohrii,* Vahl. *Opalatoa spicata,* Aubl. Guiana.—TAB. XXVIII. f. 7. Legumen et semen (*ic. ex Aubl.*).

CENTROLOBIUM. *Bth.*

Legumen stipitatum (ala excepta) ovatum, vix compressum, lignosum, indehiscens, apice stylo mucronatum, disco utrinque spinis longis densissime echinatum, sutura vexillari nuda, carinali convexa, apice in alam oblongum membranaceo-coriaceam, legumine ipso longiorem producta, 1-3-loculare. Semina 1-2, rarissime 3, subreniformia, compressa. *Arbores Brazilienses.*—Bth. *Comment. de Leg. Generib. ex parte.* Endl. 6707.

C. *robustum,* Mart. *msc.* Legumen drupoideum longe stipitatum, ovato-globosum, lignosum, stylo persistente indurato laterali calcariformi terminato. Discus spinis longis validis, inæqualibus, divaricatis, undique densissime obtectus. Ala oblonga, incurva, undulata, 5-pollicaris, et ultra, 2½-poll. lata, e basi suturæ carinalis enata et ad apicem versus dilatata, divergentim striato-venosa, tenuiter ferrugineo-pubescens et glandulosa. Pericarpium (maceratione) et in exocarpium durum lignosum (arte) bipartibile, et in mesocarpium dense fibrosum in alam certe expansum, stylo coque continuo, et in endocarpium chartaceum, loculos vestiens, divisible est: loculi 2-3, semina 1-2, coccinea, subreniformi-compressa, hylo supremam partem loculi et suturam *aliferam* v. *carinalem* versus spectante. (*Vide ad finem,* Observations, &c.) *Nissolia robusta,* Vell. *Fl. Fl.* vii. t. 85 (*in qua icone stylus ad alam versus declinatus est*). Insula Larangura, Brazilia, *Mart.* Guiana.—TAB. XXVIII. f. 8. Legumen integrum, et ejusdem sectio exocarpium, et mesocarpium cum semine in loculo supremo exhibens. Seminis apex hylo notatus ad alam spectans. *Vide etiam* TAB. XL. f. 19; *a,* semen et ejus sectio *b,* (*ic. a specimine in Herb. T. S. R. a Schomb. Adsunt specimina in Collect. Carp. Mus. Brit. et Mus. Soc. Linn.*).

ECHINODISCUS. *DC. Bth.*

Legumen stipitatum, suborbiculare, compressum, coriaceum, indehiscens, medio setis longis rigidis echinatum, axi recto v. subincurvo, mucrone styli basim indicante subterminali v. plus minus laterali, suturis in alam membranaceam, ambientem, undulatam expansis, transversim in loculos duos monospermos divisum. Semina subreniformia, radicula brevi, incurva. *Arbores Asiæ tropicæ.*—Endl. 6706.

E. *erinaceus,* Bth. Legumen compressissimum, breve velutinum, in disci centro inflatum, ibique setis rigidis spiniscentibus, rufescentibus onustum, biloculare, interdum abortu 1-loculare. Semen subreniforme compressum, fuscum, nitidum, cotyledonibus crassiusculis. *Pterocarpus,* Lam. *Pterocarpus Adansonii,* DC. Senegaliâ.—Tab. xxviii. f. 9. Legumen integrum, et apertum (*ic. a Guill. et Perr.*).

PTEROCARPUS. *Linn.*

Legumen suborbiculare, compressum, coriaceum, sublignosum, indehiscens, ala membranaceo-coriacea undique cinctum, axi valde incurvata, mucrone styli basim indicante laterali, monospermum v. transversim in loculos 2-3 monospermos divisum. Semina oblonga, compressa, radicula brevi parum incurva. *Arbores v. frutices Asiatici.*—Endl. 6705.

Pt. *Marsupium,* Rxb. Legumen suborbiculare, margine superiori brevi, ala undulata reticulata, 1-2-loculare. Semen reniforme. India Orient.—Tab. xxix. f. 1 (*ic. a Rxb.*).

Pt. *Indicus,* Willd. Legumen orbiculare, 1-3-spermum. India Orient.—Tab. xxix. f. 2. Legumen et ejusdem sectio (*ic. a Rxb. ined.*).

Pt. *Dalbergioides,* Rxb. Legumen longe stipitatum, subrotundum, medio fibrosum. Semina 1-2, reniformia. India Orient.—Tab. xxix. f. 3. Legumen et sectio ejusdem (*ic. a Rxb. ined.*).

MOUTOUCHIA. *Aubl.*

Legumen monospermum, suborbiculare, compressum, indehiscens, axi parum incurvo, suturis convexis, *vexillari* in alam membranaceo-coriaceam expansa, *carinali* breviori, exalata. *Arbores Americæ tropicæ.*—Endl. 6704.

M. *Draco,* Bth. Legumen ovato-falcatum, nervis crassis protuberantibus varicosum, extus sordide spadiceum, intus fibroso-suberosum, et quasi drupaceum. *Pterocarpus Draco,* Linn. *Pt. hemiptera,* Gærtn. *Pt. officinalis,* Jacq. Insulis Americanis.—Tab. xxix. f. 4. Legumen integrum, et apertum cum semine, cotyledon. (Descriptio generica in Endl. cum Gærtneri icone et ejus descriptione non bene quadrat; nam dixit Gærtnerus, "Legumen, hinc sutura tumida sulcato depresso inscripta notatum, inde in *alam membranaceam,* majorem leguminis arcum efficientem extenuatum," et "semen *lateri* fructus *alato* affixum.")

M. *suberosa,* Aubl. Legumen subovatum, luteum, rugosum compressum, ala membranacea cinctum. Semen ovato-oblongum. *Pterocarpus suberosus,* Pers. Guiana Gallica.—Tab. xxix. f. 5. Legumen, idem apice resecto, et semen (*ic. ex Aubl.* 299).

HECASTOPHYLLUM. *Kunth.*

Legumen stipitatum, orbiculare, ovale v. ovali-oblongum plano-compressum, plus minus suberosum, apterum, rectum v. subincurvum, indehiscens, mono- v. rarissime dispermum. Semen magnum, reniforme, radicula brevi, subincurva. *Frutices Americæ tropicæ.*—Endl. 6703.

H. *monetaria,* DC. Legumen ovali-rotundum. *Dalbergia monetaria,* Linn. f. *Pterocarpus ternata,* Poir. *Pt. Quercinus,* Fl. Fl. vii. t. 90. Surinamo.—Tab. xxix. f. 6. Legumen idem cum semine; semen (*ic a Vell.*).

MULLERA. *Linn.*

Legumen moniliforme, tri-quinque articulatum, articulis subglobosis, indehiscentibus, haud secedentibus, monospermis, suturis obsoletis. Semina compresso-reniformia. *Arbor Surinamensis.*—Endl. 6735.

M. *moniliformis,* Linn. f. *Coublandia frutescens,* Aubl. Surinamo, Guiana Gallica.—TAB. XXIX. f. 7 (*ic. ex Aubl.*).

VATAIREA. *Aubl.*

Legumen coriaceum, subrotundum, compressum, ab uno latere rugosum, ferrugineum, marginibus membranaceis exaratum, indehiscens, monospermum. Semen magnum, subrotundum, complanatum. Embryo rectus. *Arbor Guianensis.*—Endl. 6734.

V. *Guianensis,* Aubl. Guiana.—TAB. XXIX. f. 8, *ic. ex Aubl. Specimen fructus in Mus. Hort. Kew.?*

DEGUELIA. *Aubl.*

Legumen globosum, parvum, bivalve, monospermum. Semen sphæricum, farina obvolutum. *Frutex Guianensis.*—Endl. 6733.

D. *scandens,* Aubl. Guiana.—TAB. XXIX. f. 9 (*ic. ex Aubl.*).

PHASEOLEÆ. *Bth.*

Legumen bivalve, continuum v. isthmis interceptum, nec tamen in articulos secedens. Embryonis cotyledones crassæ, germinatione hypogeæ v. epigeæ, radicula incurva.—*Endl.* 1287.

ABRINEÆ, *W. et Arn.*

ABRUS. *Linn.*

Legumen oblongum, compressum, 4-6-spermum, isthmis inter semina transversim plurilocellatum. Semina subglobosa. *Frutices scandentes v. diffusi Asiæ tropicæ.*—Endl. 6698.

A. *fruticulosus,* Wall. Cat. Legumen et valvula cum semine. India Orient.—TAB. XXX. f. 1 (*ic. ab Wight Ic.*).

A. *precatorius,* Linn. *Glycine Abrus,* Linn.; *a, erythrospermus,* maculâ rubra; *b, leucospermus,* maculâ nigra; *c, melanospermus,* maculâ alba. India Orient.—TAB. XXX. f. 2. Legumen integrum, idem apertum cum semine.

RHYNCHOSIEÆ, *Bth.*—Legumen biovulatum.

FLEMINGIA. *Rxb.*

Legumen sessile, ovale, turgidum, dispermum. Semina subglobosa, umbilico exiguo, caruncula obsoleta. *Frutices v. suffrutices Asiæ tropicæ.*—Endl. 6697.

F. *lineata,* Rxb. Peninsula Indiæ Orient.—TAB. XXX. f. 3 (*ic. ab Wight Ic.*).

F. *congesta,* Rxb. Peninsula Indiæ Orient.—TAB. XXX. f. 4 (*ic. ab Wight Ic.*).

CYANOSPERMUM. *Wght. et Arn.*

Legumen vix calyce longius, di- v. abortu monospermum, inter semina constrictum, articulos duos spæricos constituens. Semina globosa, umbilico lineari, estrophiolato. *Suffrutices Indici.*—Endl. 6695.

C. *tomentosum,* Wght. et Arn. *Cylista tomentosa,* Rxb. India Orient.—TAB. XXX. f. 5. Legumen valvula unica ablata (*ic. ab Wight Ic.*).

NOMISMIA. *Wght. et Arn.*

Legumen stipitatum, orbiculatum, compressissimum, mono-dispermum, valde nervosum v. venosum. Seminum strophiola magna, ovalis, carnosa, biloba. *Herbæ volubiles.*—Endl. 6693.

N. *nummularia,* Wght. et Arn. *Rhynchosia,* DC. India Orient.—TAB. XXX. f. 6 (*ic. ab Wight Ic.*).

N. *capitata,* Wght. et Arn. Legumen transverse reticulatum, mucronatum. India Orient.—TAB. XXX. f. 7. Legumen integrum, idem apertum (*ab Wight Ic.*).

ERIOSEMA. *DC.*

Legumen sessile, rhombeo-ovatum, inter semina levissime contractum, intus pervium. Semina oblonga, umbilico strophiola longa, angusta, bilamellosa. *Herbæ suffruticosæ in regionibus tropicis totius orbis et Capt. B. Spei. crescentes.*—Endl. 6691.

E. *violacea,* DC. Legumen ovale villosum. *Cytisus violaceus,* Aubl. Guiana.—Tab. xxx. f. 10 (*ic. ex Aubl.*).

CAJANEÆ, *Bth.*—Legumen bivalve, extus lineis transversis, rectis v. obliquis constrictum.

PSEUDARTHRIA. *Wght. et Arn.*

Legumen membranaceum, planum, lineare, apice rotundatum stylo persistente incrassatum, pilis uncinatis tectum, continuum, inter semina transversim reticulato venosum. Semina compressa, subreniformia, estrophiolata. *Herbæ Asiæ tropicæ.*—Endl. 6689.

Ps. *viscida,* Wght. et Arn. *Desmodium viscidum,* DC. *Hedysarum,* Linn. *H. prostratum,* Rxb. India Orient.—Tab. xxx. f. 8. Legumen magn. nat. pars ejusdem cum embryone magn. auct (*ex Wght. Ic.*).

ATYLOSIA. *Wght. et Arn.*

Legumen oblongo-lineare, compressum, subtetraspermum, extus inter semina subconstrictum, intus septis cellulosis interceptum. Semina rotunda, umbilico ovali, strophiola magna, carnosa. *Frutices Asiæ tropicæ.*—Endl. 6687.

A. *Candollii,* Wght. et Arn. Legumen tomentosum 4-6-spermum. *Collea trinervia,* DC. *Odonia,* Spr. *Rhynchosia Wightiana,* Grah. *in Wall. Cat.* India Orient.—Tab. xxx. f. 9 (*ic. a DC.*).

CAJANUS. *DC.*

Legumen lineari-lanceolatum, utrinque angustatum, compressum, tri-pentaspermum, lineas inter semina profundis obliquis torulosum, intus isthmis membranaceis transversim pluriloculare. Semina subrotunda subcompressa, umbilico lineari, estrophiolata. *Frutices Asiæ tropicæ, in America culti.*—Endl. 6686.

C. *Indicus,* Spr. *C. bicolor,* Wall. Cat. *C. flavus,* DC. *Cytisus Cajan,* Linn.—India Orient.—Tab. xxx. f. 11.

EUPHASEOLEÆ, *Bth.*

PACHYRRHIZUS. *Rich.*

Legumen lineare, compressum, rectum, polyspermum, isthmis inter semina interceptum. Semina orbicularia, compressa, umbilico angustato. *Herbæ Asiæ tropicæ.*—Endl. 6679.

P. *angulatus,* A. Rich. *Dolichos bulbosus,* Linn. *Stizolobium bulbosum,* Spr. India Orient. et Ins. Moluccis.—Tab. xxx. f. 12 (*ic.* a *Rxb. ined.*).

PSOPHOCARPUS. *Neck.*

Legumen oblongum, alis membranaceis longitudinalibus juxta utramque suturam geminis quadrialatum, pleiospermum. Semina rotundata. *Herba Mauritiana.*—Endl. 6680.

P. *tetragonolobus,* DC. *Dolichos ovatus,* Grah. *in Wall. Cat.* *Dolichos,* Linn. Ins. Mauritiana. *Pois carré. Goa Bean. Chevaux de frize Bean.*—Tab. xxx. f. 13. Legumen et valvæ pars cum seminibus (*ic. a Rxb. ined.*).

LABLAB. *Adans.*

Legumen compressum, planum, acinaciforme, juxta utramque suturam tuberculato-muricatum, subtetraspermum, isthmis cellulosis inter semina interceptum. Semina ovata, subcompressa, callo fungoso, semicirculari marginata. *Herbæ Indicæ.*—Endl. 6677.

L. *vulgaris,* Savi. Legumen oblongo-ventricosum, seminibus ovatis subcompressis. India Orient. &c. TAB. XXX. f. 14. Legumen et valva cum semine ; semen integrum. (*Legumen ex Wght. ic. semen Gærtnero.*)

DOLICHOS. *Linn.*

Legumen compressum, lineare, falcatum v. rectiusculum, di-polyspermum, inter semina isthmis cellulosis interceptum. Semina compressiuscula, ovato-subreniformia, strophiola tenui. *Herbæ orbis tropici.*—Endl. 6676.

D. *ciliatus,* Klein. Legumen acinaciforme glabrum, 2-4-spermum. *D. argenteus,* Rxb. *ic. ined.* India Orient.—TAB. XXXI. f. 1.

D. *falcatus,* Klein. Legumen falcatum, compressum, 4-8-spermum. India Orient.—TAB. XXXI. f. 2.

D. *Sinensis,* Linn. Legumen lineari-teres, torulosum, pendulum, 6-12-spermum. *D. Catjang,* Wall. Cat. *D. Tranquebarensis,* Jcq. India Orient. et Chinâ.—TAB. XXXI. f. 3 (*ic. a Rxb. ined.*).

PHASEOLUS. *Linn.*

Legumen lineare v. falcatum, plus minus compressum v. teretiusculum. Seminum umbilicus parvus, oblongus, nudus v. strophiola tenui, membranacea auctus. *Frutices v. herbæ totius orbis tropici subtropicique.*—Endl. 6674.

PH. *rostratus,* Wall. Legumen planum, lineare, incurvo-cuspidatum, arcuatum, parum torulosum, fere glabrum, polyspermum. Semina ovata, fusca. *Ph. amarus,* Rxb. *ined.* India Orient.—TAB. XXXI. f. 4.

PH. *torosus,* Rxb. Legumen cylindraceum, torosum. Semina 6-10, ovalia, alba. India Orient.—TAB. XXXI. f. 5.

PH. *fuscus,* Wall. *Pl. As. rar.* Legumen hirsutum, planum, lineare. India Orient.—TAB. XXXI. f. 6 (*ic. l. c.*)

PH. *Roxburghii,* Wght. et Arn. Legumen pilosissimum cylindraceum gracile (2-lin. lat. $1\frac{1}{2}$-pollicare), 4-6-spermum, seminibus glabris, utrinque truncatis. *Ph. Minoomoo,* Rxb. *ined.* India Orient.—TAB. XXXI. f. 7.

PH. *lunatus,* Linn. Legumen acinaciforme sublunatum læve, 2-4-spermum. India Orient.—TAB. XXXI. f. 8. Legumen cum semine.

WISTERIEÆ, *Endl.*

CYRTOTROPIS. *Wall.*

Legumen lineari-compressum, polyspermum, bivalve, endocarpio subspongioso, isthmis transversis pluriloculari, secedente. Semina oblonga, compressiuscula. *Herba Nepaulensis.* Endl. 6672.

C. *carnea,* Wall. Legumen gracile, sexpollicare, leviter torulosum reticulato-venosum glabrum, 16-20-spermum. Napalia.—TAB. XXXI. f. 9, *ic. a Wall. Pl. As. rar.*

WISTERIA. *Nutt.*

Legumen lineari-oblongum, coriaceum v. sublignosum, seminibus torosum, bivalve polyspermum. Semina reniformia. *Frutices scandentes Americæ borealis, Japonicæ, &c.*—Endl. 6671.

W. *Japonica,* Siebold et Zucc. Legumen stipitatum, lineare, subtorulosum, mucronatum, glabrum, 6-8-spermum. Semina compressa, sublentiformia, hilo elliptico notata, radicula super cotyledonum commissuram prona. Japonia.—TAB. XXXI. f. 10. Legumen ; *a,* semen auctum ; *b,* embryo (*ic. l.c.*).

W. *Sinensis,* Zucc. Legumen lineari-oblongum, basi attenuatum, apice mucronatum, lignescens, extus sordide nigricans, molliter tomentosum, bi-pentaspermum. *Glycine Sinensis,* Willd. *W. Chinensis,* DC. Japonia.—TAB. XXXI. f. 11. Legumen integrum et apertum (*ic. l. c.*).

ERYTHRINEÆ, *Bth.*—Legumen indehiscens.

BUTEA. *Konig.*

Legumen indehiscens, stipitatum, plano-compressum, tenue membranaceum, apice monospermum. Semen compressum. *Arbores v. frutices scandentes Asiæ tropicæ.*—Endl. 6670.

B. *frondosa,* Rxb. Legumen lato-oblongum, reticulato-velutinum, margine antico incrassato, recto, postico arcuato. Semen suborbiculare, compressum. India Orient.—Tab. xxxii. f. 1. Legumen apice apertum, cotyledonem in situ exhibens.

B. *parviflora,* Rxb. Legumen lato-lineare, obtusum, 3½-pollicare, ferrugineo-tomentosum, reticulatum. Tab. xxxii. f. 2. Legumen apice apertum semen exhibens.

B. *gyrocarpa,* Grah. Legumen sessile, cultriforme, basi dilatata, apice attenuatum, reticulato-velutinum. Semen elliptico-compressum. Penang. Wall. Cat. 5442.—Tab. xxxii. f. 3. Legumen; *a,* seminis figura.

B. *acuminata,* Wall. 5443. Vix differt fructu glabro, foliolis acuminatis. Moulmayne, Martabania.

RUDOLPHIA. *Willd.*

Legumen oblongum, compresso planum, indehiscens, stylo indurato rostratum. Semina plana. *Frutices Antillani et Mexicani scandentes.*—Endl. 6669.

R. *rosea,* Tussac. Legumen complanatum, polyspermum, semina ovalia compressa.—Tab. xxxii. f. 4. Legumen; *a,* semen, *b,* embryo; *c,* seminis sectio transversalis (*ic. l. c.*).

ERYTHRINA. *Linn.*

Legumen dehiscens v. indehiscens, longum, inter semina compressum, torulosum, pluriloculare, stylo indurato rostratum. Semina ovalia, distantia, umbilico lineari. *Arbusculæ v. frutices totius orbis tropici subtropicique.*—Endl. 6667.

E. *Indica,* Lam. Legumen pedale, stipite pollicari, falcatum vix dehiscens, 2-8-spermum, sutura seminifera convexa bimarginata, stylo deorsum curvato. Epicarpium venoso-reticulatum ab endocarpio transversim septato discretum. Semina punicea. India Orient.—Tab. xxxii. f. 5. Legumen; *a,* idem apertum, exocarpium et endocarpium et semen exhibens; *b,* semen apertum.

E. *stricta,* Rxb. Legumen utrinque acuminatum vix torulosum? 2-3-spermum. India Orient.—Tab. xxxii. f. 6, *ic. a Rxb.*

E. *monosperma,* Gaud. *in Freyc. voy.* Legumen longe stipitatum, sutura seminifera crassata, apice deorsum reflexo.—Tab. xxxii. f. 7. Legumen; *a,* semen antice visum; *b,* embryo auctus (*ic. l. c.*).

E. *ovalifolia,* Rxb. India Orient.—Tab. xxxii. f. 8 (*ic. ex Wght. Ic.*).

E. *Guineensis,* G. Don. Legumen stipitatum, falcatum, 7-10-spermum, torulosum, stylo longo apiculatum, dehiscens. Endocarpium ab exocarpio solubile. Semina coccinea funiculis longis suffulta. *Niger Expedition.* Guinea.—Tab. xxxii. f. 9. Legumen; *a, b,* semen, sectio ejusdem. (*Adsunt specimina in Mus. Hort. Kew. et Soc. Linn.*)

MUCUNA. *Adans.*

Legumen indehiscens v. tandem bivalve, lineare, oblongum v. ovatum, mono-oligospermum, inter semina torosum, extus sæpissime pilis prurientibus hirtum, intus isthmis cellulocis inter semina transversim pluriloculare. Semina rotundata, umbilico lineari zonata. *Suffrutices v. frutices longe scandentes.*—Endl. 6665.

M. *atropurpurea,* DC. Legumen oblongo-ovale, transverse plicatum 2- v. interdum 1-spermum, pilis copiosis brunneis urentibus armatum; semine ovali, margine altero magis convexo, hilo lineari longitudinaliter aucto. *Carpopogon atropurpureum,* Rxb. India Orient.—Tab. xxxiii. f. 1.

M. —, Ruiz et Pavon. Legumen stipitatum? oblongum stylo longissime (bipoll.) acuminatum, sutura seminifera incrassata, 3-spermum? hirsutissimum. Semen globosum hylo magno lineari donatum (*ab icone descript.*). Peruvia?—Tab. xxxiii. f. 2. Legumen et semen (*ic. l. c.*).

M. *gigantea,* DC. Legumen stipitatum, oblongum, compressum, hispidum, suturis sulcatis, 3-4-spermum. Semina hylo semicirculari. *Carpopogon,* Rxb. India Orient.—Tab. xxxiii. f. 3. Legumen (*ic. a Rxb. ined.*).

M. *utilis,* Wall. *MSS.*—Tab. xxxiii. f. 4. Legumen et embryo (*ex Wght. Ic.*).

M. *capitata*, Wght. et Arn. Legumen subcylindraceum, vix curvatum, dense molliterque pubescens, 5-6-spermum; valvis longitudinaliter irregulariterq. sulcatis; seminibus ovalibus, hilo lineari-oblongo breviusculo. *Dolichos Soorootoo*, Rxb. *ic. ined.* India Orient.—TAB. XXXIII. f. 5 (*ic. l. c.*).

M. *prurita*, Hook. Legumen flexuosum, pilis rigidis densissime vestitum, subhexaspermum; valvis medio non carinatis. *Dolichos*, Rxb. *ined.* India Orient.—TAB. XXXIII. f. 6.

M. *monosperma*, DC. Legumen stipitatum, ovale, rigidissime urenti-pilosum, suturis bi-lamelloso-alatis, valvis oblique plicaturis 3 v. 4 donatis, stylo persistente recurvo. Semen unicum reniforme, hilo marginem convexum includente. *Carpopogon*, Rxb. *Dolichos urens*, Rxb. *ined.* India Orient.—TAB. XXXIV. f. 1. Legumen et semen (*a Museo Soc. Linn.*).

M. *anguina*, Wall. *Pl. As. rar.* Legumen stipitatum subrotundum, transverse lamelloso-rugosum hispidissimum, mono-spermum. India Orient.—TAB. XXXIV. f. 2 (*ic. l. c.*).

M. *macrocarpa*, Wall. Legumen longissimum, basi attenatum, ensiforme, compressum, inter semina subconstrictum, tomentosum, polyspermum. Semen funiculo *arilliformi* maturitate solubili donatum. India Orient.—TAB. XXXIV. f. 3. Legumen maturum, et valvulæ loculus apertus; semen a funiculo solutum exhibens (*ic. a specimine in Mus. Soc. Linn.*).

M. *nivea*, Buch. Legumen lineare, sigmoideum, maturitate nigrum, glabrum, nervis longitudinalibus auctum. Semina 6-8, ovalia. *Carpopogon*, Rxb. India Orient.—TAB. XXXIV. f. 4 (*ic. a Rxb. ined.*).

M. *hexandra*, —. Legumen oblongo-quadratum, sutura seminifera crassata apice acuminatum, uniloculare, dispermum, piloso-fuscum; semina magna, orbicularia, striato-maculata, hylo magno, funiculo brevi. *Dolichos hexandrus*, Rxb. India Orient.?—TAB. XXXIV. f. 5, *ic. a Rxb. ined.* 2328.

(*Planta tota dense ferrugineo-pilosa, ramosa; foliis petiolatis, foliolis ovatis, acuminatis,* 3-*poll. long.* $2\frac{1}{2}$-*latis, stipulis ovatis; racemis* 6-7-*pollicaribus erectis. Calyx subbilabiatus,* 5 *dentatus. Stamina* 1 *et* 9, 4 *sterilia, ovarium* 2-*ovulatum.*)

DIOCLEÆ, *Bth.*

CANAVALIA. *DC.*

Legumen oblongum v. lineare, compressum, subfalcatum, coriaceum, sutura vexillari subincrassata, valvis utrinque prope suturam nervo longitudinali auctis, sutura carinali nuda, isthmis cellulosis inter semina transversim multiloculare. Semina ovato-rotunda, compressa, umbilico lineari, estrophiolato. *Herbæ volubiles totius orbis tropici subtropicique.*—Endl. 6663.

C. *ensiformis*, DC. Legumen stipitatum, acinaciforme, glabrum. India Orient.—TAB. XXXV. f. 1.

C. *virosa*, W. et Arn. Legumen lineare, acinaciforme, 4-8-spermum. *Dolichos*, Rxb. Bengalia.—TAB. XXXV. f. 2.

C. *turgida*, Grah. *in Wall. Cat.* 5534. Legumen stipitatum, 5-6-pollicare, 2-poll. latum, oblongum, turgidum, apice rotundato-acuminatum, 4-6-spermum. India Orient.—TAB. XXXV. f. 3 (*ic. a specimine in Mus. Soc. Linn.*).

C. *obcordata*.—*Dolichos obcordatus*, Rxb. China.—TAB. XXXV. f. 4, *ic. a Rxb. ined.* 2327.

(*Planta glabra, scandens? petiolis brevibus, foliolis obcordatis,* 4-*poll. longis, floribus rubris.*)

DIOCLEA. *H. B. K.*

Legumen oblongum, plano-compressum, crassiusculum, coriaceum, sutura vexillari incrassata, sæpius angusto-bialata. Semina transversa, compressa, umbilico lineari strophiola tenui, demum libera. *Frutices Americæ tropicæ.*—Endl. 6662.

D. *sericea*, Humb. Legumen lineare, subrectum, basi attenuatum, apice acutum, lutescenti-sericeum, valvulæ coriaceæ, membrana spongiosa albida vestitæ. Semina ovata. N. Granatensis.—TAB. XXXV. f. 5 (*ic. ex Humb. N. G.*).

GLYCINEÆ, *Bth.*—Semina estrophiolata.

GLYCINE. *Linn.*

Legumen lineare, compresso-subcylindricum, rectiusculum, styli basi persistente mucronatum, polyspermum, isthmis cellulosis inter semina interceptum. Semina subovata estro-

phiolata. *Herbæ v. suffrutices volubiles Asiæ et Americæ tropicæ, necnon Capit. B. Spei.*—Endl. 6650.

G. *labialis,* Linn. *G. pentandra,* Rxb. India Orient.— Tab. xxxv. f. 6.

GALACTIA. *P. Br.*

Legumen lineare, compressum, subrectum, coriaceum, polyspermum, isthmis cellulosis, inter semina transversim pluriloculare. Semina orbicularia v. subreniformia, estrophiolata. *Herbæ v. suffrutices orbis tropici subtropicique.*—Endl. 6653.

G. *longifolia,* R. W. India Orient.—Tab. xxxv. f. 7. Legumen et semen auctum (*ic. ab Wght. Ic.* 482).

SOYA. *Mönch.*

Legumen oblongum, subfalcatum, membranaceum, di-pentaspermum, isthmis cellulosis inter semina transversim pluriloculare. Semina ovata, compressa. *Herbæ Asiæ tropicæ.* Endl. 6649.

S. *hispida,* Mœnch. India Orient.—Tab. xxxvi. f. 1. Legumen et semen.

CYAMOPSIS. *DC.*

Legumen acinaciforme longitudinaliter canaliculatum et striatum, sutura vexillari binervosum, stylo persistente rostratum, pleiospermum, isthmis inter semina transversis plurilocellatum. Semina oblongo-cylindracea, utrinque truncata, verrucosa, radicula accumbenti. *Herbæ Asiæ et Africæ tropicæ.*—Endl. 6647.

C. *Senegalensis,* Guillem. et Perr. Gambia.—Tab. xxxvi. f. 2. Legumen et semen auctum.

CLITORIEÆ, *Bth.*—Semina estrophiolata.

CENTROSEMA. *DC.*

Legumen subsessile, lineare, plano-compressum, sutura utraque incrassatum, valvulis utrinque longitudinaliter prope marginem nervo tenui notatis. Semina compressa, estrophiolata. *Frutices v. herbæ Americanæ.*—Endl. 6638.

C. *Plumieri,* Bth. Legumen lineare, compressum, torulosum, 1-loculare, polyspermum, coriaceum, apice rostratum. Semina subelliptica. *Clitoria Fluminensis,* Vell. *Fl. Fl.* Nov. Granat.—Tab. xxxvi. f. 3. Legumen (*e Mus. Soc. Linn.*).

C. *hastatum,* Bth. Legumen estipitatum, stylo persistente subulato longissime rostratum, valvis lignoso coriaceis spiraliter tortis. Semina transverse elliptica suturæ insidentia. Brazilia.—Tab. xxxvi. f. 4. Legumen valvulis revolutis, semen et embryo (*ic. ex Humb.*).

CLITORIA. *Linn.*

Legumen stipitatum, lineare, plano-compressum, sutura utraque incrassata, valvulis enerviis, exalatis. Semina plura plana, estrophiolata. *Herbæ v. frutices Americæ et Asiæ tropicæ.*—Endl. 6635.

C. *ternatea,* Linn. Legumen glabrum, celluloso-pluriloculare. India Orient.—Tab. xxxvi. f. 5. Legumen et valvula ejusdem cum seminibus, semen et embryo.

PUERARIA. *DC.*

Legumen lineare, basi attenuato stipitatum, stylo apiculatum, bivalve, polyspermum. Semina . . . *Frutices Indici.*—Endl. 6632.

P. *tuberosa,* DC. Legumen lineare, acuminatum, pilosum, inter semina torulosum, 2-6-spermum. India Orient.—Tab. xxxvi. f. 6. Legumen parte inferiori valvula resecta (*ic. ab Wight Ic.*).

DUMASIA. *DC.*

Legumen basi attenuatum, compressum, bivalve, oligospermum, valvis inter semina torulosis. Semina . . . *Herbæ Nepaulenses.*—Endl. 6631.

D. *congesta,* Grah. India Orient.—TAB. XXXVI. f. 7. Legumen magn. nat. valvulæque auctæ pars (*ic. a Wight Ic.*).

D. *pubescens,* DC. Napauliâ.—TAB. XXXVI. f. 8 (*ic. a DC. Leg.*).

HEDYSAREÆ. *DC.*

Legumen transversim in articulos monospermos secedens. Embryonis cotyledones foliaceæ, radicula incurva.—*Endl.* p. 1280.

ALHAGIEÆ, *DC.*—Legumina teretiuscula.

ALYSICARPUS. *Neck.*

Legumen teres v. subcompressum, in articulos plurimos clausos, utrinque æquales, monospermos secedens. Semina reniformia. *Herbæ v. suffrutices Asiæ et Africæ tropicæ et subtropicæ.*—Endl. 6626.

AL. *Belgaumensis,* R. W. Penins. Indiæ Orient.—TAB. XXXVI. f. 10. Legumen magn. nat. semen auctum (*ic. a Wight Ic.*).

AL. *longifolius,* W. et Arn. Legumen inter semina parum contractum, reticulatum, pubescens, 5-6-spermum. India Orient.—TAB. XXXVI. f. 11.

ALHAGI. *Tournef.*

Legumen stipitatum, sublignosum, teres, oligospermum, isthmis hinc inde irregulariter strangulatum, haud articulatum, indehiscens. Semina reniformia. *Suffrutices v. herbæ Orientis.* Endl. 6625.

AL. *Maurorum,* Tournef. *Hedysarum Alhagi,* Linn. India Orient. et Ægypto.—TAB. XXXIX. f. 29. Legumen, semina magn. nat.; *a,* semen auctum; *b,* seminis sectio.

NISSOLIA. *Jacq.*

Legumen teretiusculum, articulis 2-3, monospermis, truncatis, secedentibus, indehiscentibus, supremo apice in alam membranaceam obtusam, inferne cultriformem, superne parum incrassatam excurrente. Semina oblonga. *Frutices Americæ tropicæ.*—Endl. 6629.

N. *fruticosa,* Jacq. Carthagena et Mexico.—TAB. XXXVI. f. 9; *a,* legumen integrum; *c,* idem apertum; *b,* ejusdem articuli separati cum semina in situ. Semina separata, et embryo auctus (*ic. a Gærtnero*).

EUHEDYSAREÆ, *DC.*—Legumen compressum.

ONOBRYCHIS. *Tournef.*

Legumen subsessile, uniarticulatum, compressum, indehiscens, monospermum, lacunoso-reticulatum, margine superiori seminifero crassiori, recto, inferiori tenuiori, curvato, sæpissime dentato, spinoso v. loboso. Semen subreniforme. *Herbæ Europæ et Asiæ mediæ.*—Endl. 6619.

O. *crista galli,* Lam. Leguminis glabri dorsum cristatum, crista in lacinias planas oblongas dentatas partita, disco rugoso subaculeato. Europa Australis.—TAB. XXXVI. f. 12; *a,* fructus integer; *b,* legumen denudatum; *c,* valvula reclinata; *d,* legumen apertum; *e,* semina et embryo (*ic. a Gærtnero*).

HEDYSARUM. *Jeaum.*

Legumen articulatum, articulis compressis, orbiculatis, medio inter se connexis, ad utramque suturam convexis, disco lævibus, pilosis aut muricatis, monospermis. Semina compresso-reniformia. *Herbæ v. suffrutices.*—Endl. 6618.

H. *coronarium,* Linn. Leguminis articuli 2-5 orbiculati, aculeati glabri. Italia.—Tab. xxxvi. f. 13. Legumen integrum, articulus auctus (*ic. a Gærtnero*).

DESMODIUM. *DC.*

Legumen multiarticulatum, articulis secedentibus, compressis, monospermis, membranaceis sive coriaceis, indehiscentibus v. vix apertis. Semina compresso-reniformia. *Herbæ v. suffrutices regionum tropic. et subtropicarum.*—Endl. 6615.

D. *gyrans,* DC. Legumen compressum, margine superiori recto, inferiori crenulato, 10-12-articulatum. India Orient.—Tab. xxxvi. f. 14 (*ic. a Wight Ic.*).

D. *cinereum,* DC. Leguminis breviter stipitati, articuli 1-5, deltoideo-semiorbiculati, reticulato-venosi, molliter canescenti-pubescentes. Semina elliptico-reniformia. Mexico.—Tab. xxxvi. f. 15. Legumen, et semen auctum a latere et antice visum.—*ex Humb.*

D. *ascendens,* Sw. Legumen mucronato-aristatum, articulis semiorbiculatis, reticulato-venosis. Semina reniformia. Orinoco.—Tab. xxxvi. f. 16. Legumen, semen auctum, et embryo.

D. *congestum,* Wall.—Tab. xxxvi. f. 17. Legumen, semen auctum (*ic. a Wight Ic.*).

MECOPUS. *Bennet.*

Legumen longissime stipitatum, membranaceum, uniloculare monospermum, rarius articulatim biloculare, dispermum. Semina compresso-reniformia. *Herba Javanica.*—Endl. 6611.

M. *nidulans,* Bennet. Java.—Tab. xxxvi. f. 18. Legumen auctum, et semen valde auctum (*ic. ab Horsf. Pl. Jav. rar.*).

URARIA. *Desv.*

Legumen articulis 2-6, ovatis, plicato-retrofractis, intra calycem nidulantibus, monospermis. Semina compresso-reniformia. *Herbæ interdum suffruticosæ Asiæ tropicæ.*—Endl. 6610.

U. *hamosa,* Wall. Cat. Legumen 2-6 articulatum pubescens. *Doodia hamosa,* Rxb. India Orient. Tab. xxxvi. f. 19 (*ex Wght. Ic.* 284).

LOUREA. *Neck.*

Legumen articulis 4-6, planis, orbiculatis v. semiorbiculatis, intra calycem plicato-retrofractus, catenulatim cohærentibus, monospermis. Semina compresso-reniformia. *Herbæ Asiæ tropicæ.*—Endl. 6609.

L. *vespertilionis,* Desv. *Hedysarum,* Linn. fil. India Orient.—Tab. xxxvi. f. 20 (*ex Wight Ic.*).

ÆSCHYNOMENE. *Linn.*

Legumen stipitatum, compressum, a calyce exsertum, sutura vexillari recta carinali sinuata multiarticulatum, styli basi reflexo-uncinata apiculatum, articulis secedentibus, monospermis. Semina compressa. *Herbæ v. suffrutices regionum tropic. et subtropicarum.*—Endl. 6605.

Æ. *aspera,* Linn. Leguminis articuli medio scabro-tuberculosi, fere parallelogrammi. India Orient. Tab. xxxvi. f. 21 (*ic. a Wight Ic.*).

Æ. *Indica,* Linn. Legumen glabrum punctatum, articuli 10-12, hinc recti illinc subrotundati. India Orient.—Tab. xxxvi. f. 22 (*ic. a Wght. Ic.*),

Æ. *Cachemiriana,* Cambess. Fructus glaber. Cachemiria.—Tab. xxxvi. f. 23 (*ic. a Jacquem. Voy.*).

ADESMIA. *DC.*

Legumen compressum, subfalcatum, sutura vexillari recta, incrassata, carinali sinuato-excisa, bi-multiarticulatum, articulis lævibus v. muricatis, secedentibus, monospermis. Semina compresso-reniformia. *Herbæ v. frutices Americæ australis et Cap. B. Spei.*—Endl. 6603.

AD. *hispidula,* DC. Leguminis articuli medio setis subplumosis donati. Peruviâ.—TAB. XXXVI. f. 24. Legumen et embryo (*ic. a DC. leg.*).

AD. *longiseta,* DC. Legumen setis plumosis longissimis rigidulis donatum. America australi.—TAB. XXXVI. f. 25. Legumen et semen (*ic. a DC. leg.*).

AD. *ulicina,* Prsl. Legumen 3-5-articulatum, articulo unico longissime setoso plumoso, reliquis villosissimis. Chili.—TAB. XXXVI. f. 26 (*ic. a Presl Symb.*).

ARACHIS. *Linn.*

Legumen hypogæum, oblongum crassum, reticulatum, indehiscens, subtorulosum, di-trispermium. Semina irregulariter ovoidea; cotyledonibus crassis, radicula recta brevi. *Herbæ Americæ tropicæ et in regionibus calidioribus cultæ.*—Endl. 6601.

A. *hypogæa,* Linn. Legumen oblongum, $1\frac{1}{4}$-$1\frac{3}{4}$-poll. teretiusculum, coriaceum, nervis prominentibus reticulato-scrobiculatum. Semina ad mutuum contactum oblique truncata, pendula. America, India Orient. culta.— TAB. XXXVI. f. 27. Legumen integrum 3-spermum, valvula cum seminibus duobus (sutura seminifera inferiori parte iconis; *a,* semen inferius; *b,* embryo).

STYLOSANTHES. *Linn.*

Legumen sessile, sæpius biarticulatum, articulis compressis, inferiore nunc sterili, stipitiformi, nunc monospermo, superiore monospermo, secedente, apice stylo persistente hamato. Semina lenticulari-compressa. *Herbæ v. suffrutices totius orbis tropici.*—Endl. 6600.

ST. *humilis,* H. B. K. Legumen aristato-uncinatum reticulatum hispidulum. Orinoco.—TAB. XXXVI. f. 28. Legumen, semen auctum (*ic. a l. c.*).

ST. *gracilis,* H. B. K. Legumen mucronato-uncinatum, apice tuberculato-glandulosum glabrum. N. Andalusia.—TAB. XXXVI. f. 29. Legumen auctum, semen auctum antice et lateraliter visum (*ic. a l. c.*).

PHYLACIUM. *Bennett.*

Legumen subrotundum compressum, reticulato-nervosum, monospermum. Semen compressum, ovale. *Herba Indica.*—Endl. 6598.

PH. *bracteosum, Bennett.* Legumen brevi-stipitatum, ovato-subrotundum, antice convexum, postice rectiusculum, lateribus compressum, mucronatum, 3 v. 4-lin. long. Semen oblique ovale compressum. TAB. XXXVI. f. 30. Legumen, semen auctum (*ic. ab Horsf. Pl. Jav. rar.*).

AMICIA. *Kunth.*

Legumen lineare, compressum, 5-articulatum, articulis monospermis, utrinque truncatis, secedentibus. Semina compressa. *Frutex Novo-Granatensis.*—Endl. 6594.

A. *glandulosa,* H. B. K. Legumen suturis incrassatis falcatum, glandulis punctiformibus conspersum. TAB. XXXVII. f. 1. Legumen et embryo (*ic. a Humb. N. Genera*).

ORMOCARPUM. *Palis.*

Legumen stipitatum pluriarticulatum, articulis oblongis, utrinque angustatis, compressiusculis, longitudinaliter striatis, verruculosis, monospermis, distincte secedentibus. Semina compressa. *Frutices Asiæ et Americæ tropicæ.*—Endl. 6593.

O. *sennoides,* DC. Legumen articulis striatis aculeato-verrucosis. *Hedysarum,* Willd. India Orient. TAB. XXXVII. f. 2 (*ic. a Wght. Ic.*).

O. *verrucosum,* Beauv. Legumen articulis striatis verrucosis. *Mellera verrucosa,* Pers. In Regno Owariensi.—TAB. XXXVII. f. 3 (*ic. a Palisot. de. Beauv.*).

PICTETIA. *DC.*

Legumen stipitatum compressum, oligospermum, nunc continuum, isthmis inter semina interceptum, nunc articulatum, articulis monospermis, nonnullis abortivis, nec striatis nec verrucosis. Semina compresso-plana, ovalia, basi truncata. *Frutices Antillani.*—Endl. 6591.

P. *obcordata,* DC. Legumen longiuscule stipitatum, oblongum compressum forsan abortu 1-loc. 1-sperm.? Sancto Domingo.—TAB. XXXVII. f. 4 (*ic. a DC. leg.*).

P. *aristata,* DC. Ins. Indiæ occident.—TAB. XXXVII. f. 5 (*ic. a DC. leg.*).

CORONILLEÆ, *DC.*—Legumina teretia v. compressa.

BONAVERIA. *Scop.*

Legumen compressum, isthmis interceptum, suturis incrassatis, supera bisulca, continuis, haud in articulos secedens. Semina compresso-tetrangula, umbilico ventrali. *Herba Europæ australis.*—Endl. 6589.

B. *Coronilla,* Scop. Legumen falcato-gladiatum, apice rostratum, dissepimentum membranaceum; semina subduodena, suturæ convexæ affixa. *Coronilla Securidaca,* Linn. *Securigera,* DC. *Securidaca legitima,* Gærtn. fruct. Europa australi.—TAB. XXXVII. f. 6. Legumen integrum, valvula cum seminibus, semen auctum (*ic. a Gærtn.*).

HIPPOCREPIS. *Linn.*

Legumen compressum articulis plurimis ad suturam seminiferam semicirculariter excisis, indehiscentibus, monospermis, secedentibus. Semina reniformia, curvata v. angulata, umbilico ventrali. *Herbæ v. suffrutices regionis Mediterraneæ.*—Endl. 6588.

H. *Balearica,* Jacq. Legumen subarcuatum glabrum. In Ins. Minorcâ.—TAB. XXXVII. f. 7.

ARTHROLOBIUM. *Desv.*

Legumen subangulatum, in articulos plurimos, monospermos, indehiscentes, cylindraceos secedens. Semina ovato-cylindracea, umbilico ventrali. *Herbæ Mediterraneæ.*—Endl. 6586.

A. *repandum,* DC. Legumina subnodosa subincurva. *Ornithopus,* Lam. In Barbaria.—TAB. XXXVII. f. 8.

SCORPIURUS. *Linn.*

Legumen revolutum, subspirale, constans articulis 3-6, monospermis, longitudinaliter sulcatis, nervis sæpe aculeatis v. muricatis. Semina oblonga v. ovalia, umbilico ventrali. Embryonis replicati cotyledones lineares. *Herbæ Mediterraneæ.*—Endl. 6584.

S. *sulcata,* Linn. Legumen glabrum, 7-10-articulatum, costis interioribus lævibus, 4 externis aculeos rigidulos distantes, apice subuncinatos gerentibus.—TAB. XXXVII. f. 9. Legumen cum semine (*ic. a Gærtn.*).

S. *vermiculata,* Linn. Legumen glabrum, costis intimis subnullus, externis 10 tuberculos stipitatos confertos apice obtusè dilatatos gerentibus.—TAB. XXXVII. f. 10. Legumen; *a, b,* embryo (*ic. a Gærtn.*).

VICIEÆ. *DC.*

Legumen bivalve, continuum. Embryonis cotyledones crassæ, germinatione hypogeæ, radicula incurva.—*Endl.* p. 1278.

OROBUS. *Tournef.*

Legumen compressum, valvulis post anthesin spiraliter tortis. Semina subglobosa, umbilico lineari, obsolete carunculato. *Herbæ in temperatis hemisphæræ borealis.*—Endl. 6583.

O. *niger,* Linn. Legumen glabrum nigrum, obsolete reticulato-venosum; semina globosa suturæ rectiori affixa. Europa.—TAB. XXXVII. f. 11 (*ic. a Gærtn.*).

LATHYRUS. *Linn.*

Legumen compressum, apterum v. sutura superiore alatum, polyspermum. Semina globoso-compressiuscula, umbilico ovali, strophiola conformi, demum evanida. *Herbæ regionum temperat. totius orbis.*—Endl. 6582.

L. *sativus,* Linn. Legumen ovato-oblongum, irregulariter reticulatum, dorso alatum; seminibus trigonis subtruncatis lævibus. Hispania.—TAB. XXXVII. f. 12. Legumen, et semen apertum (*ic. a Gærtn.*).

VICIA. *Linn.*

Legumen compressum v. turgidum, di-polyspermum. Semina subglobosa, lateribus subcompressa, umbilico-ovali v. lineari, strophiola conformi, demum evanida tecto. *Herbæ.*—Endl. 6581.

V. *nodosa,* Fisch. sine descriptione.—TAB. XXXVII. f. 13 (*ic. a Gærtn.*).

ERVUM. *Tournef.*

Legumen oblongum compressum, di-tetra-hexaspermum. Semina orbicularia v. subglobosa. *Herbæ in temperatis hemisphæræ borealis.*—Endl. 6580.

E. *ervilia,* Linn. Legumen subinflatum, oblongo-lineare, torulosum, glabrum. Semina angulato-subrotunda. *Vicia,* Willd.—TAB. XXXVII. f. 14. Legumen et embryo (*ic. a Gærtn.*).

PISUM. *Tournef.*

Legumen oblongum polyspermum. Semina subglobosa, umbilico elliptico. *Herbæ in maritimis hemisphæræ borealis et in Asia media obviæ.*—Endl. 6679.

P. *sativum,* Linn.—TAB. XXXVII. f. 15. Legumen; *a,* semen; *b,* cotyledon (*ic. a Gærtn.*).

CICER. *Tournef.*

Legumen rhomboideum v. ovale, turgidum, dispermum. Semina gibbosa, mucronata, arietis caput referentia. *Herbæ annuæ Europæ australis, Asiæ mediæ et Indiæ.*—Endl. 6578.

C. *arietinum,* Linn. Hispania, Italia, et Orient.—TAB. XXXVII. f. 16. Legumen; *a,* semen, hylum exhibens; *b,* a latere visum, caput arietinum proponens.

LOTEÆ. *DC.*

Legumen bivalve, continuum. Embryonis cotyledones germinatione foliaceæ, radicula incurva.—*Endl.* p. 1259.

ASTRAGALEÆ, *DC.*—Legumen sutura altera introflexa longitudinaliter biloculare v. semibiloculare.

BISERULA. *Linn.*

Legumen plano-compressum, dorso utrinque sinuato-dentatum, biloculare, bivalve, dissepimento valvis contrario. Semina plurima reniformia. *Herbæ Europæ mediterraneæ et orientis.*—Endl. 6574.

B. *Pelecinus,* Linn. *Pelecinus vulgaris,* Tournef.—TAB. XXXVII. f. 19. Legumen integrum et alterum valvulâ partim resecta; semen auctum, embryo in albumine situs, et cotyledones explicatæ (*ic.* a *Gærtn.*).

ASTRAGALUS. *DC.*

Legumen forma varium, sutura carinali introflexa, incomplete v. fere complete bilocellatum, polyspermum v. oligospermum. Semina reniformia. *Herbæ v. suffrutices.*—Endl. 6573.

A. *macrocarpus,* DC. Legumen inflatum ovato-globosum, mucronatum glabrum maximum. In Orient. TAB. XXXVII. f. 20. Legumen integrum, et apertum; semina valvulæ unius exhibens, et dissepimentum valvulæ alteri affixum (*ic. a DC. Astr.*).

A. *Bæticus,* Linn. Legumen triquetro-prismaticum glabrum rectum apice mucronato uncinatum; semen angulatum. Hispaniâ, Orient.—TAB. XXXVII. f. 21. Legumen, et sectio transversalis ejusdem; *a,* semen; *b,* cotyledones (*ic. a Gærtn.*).

A. *galegiformis,* Linn. Legumen stipitatum, triquetrum, apice mucronatum; semen reniforme. In Sibiriâ.—TAB. XXXVII. f. 22. Legumen, sectio transversalis ejusdem et semen (*ic. a Gærtn.*).

OXYTROPIS. *DC.*

Legumen sutura vexillari seminifera introflexa, incomplete v. fere complete bilocellatum. Semina reniformia. *Herbæ in Europa media raræ, in Asia et America boreali et subarctica frequentes.*—Endl. 6572.

O. *Chiliophylla,* Royle. In Himalayæ montib.—TAB. XXXVIII. f. 1. Legumen et ejus sectio (aucta) transversalis (*ic. a Jacquem. Voy.*).

PHACA. *Linn.*

Legumen subturgidum, sutura carinali haud introflexa, seminifera tumida, uniloculare, polyspermum. Semina reniformia. *Herbæ v. suffrutices in temperatis et frigidis hemisphæræ borealis.*—Endl. 6571.

PH. *triflora,* DC. Legumen semi-elliptico-oblongum, turgidum, transverse reticulato-venosum, apice hians, pubescens. *Ph. Candolliana,* H. B. et. K. Peruvia.—TAB. XXXVII. f. 23. Legumen integrum, valvula aperta; *a,* semen auctum; *b,* embryo.

GALEGEÆ, *DC.*

LESSERTIA. *DC.*

Legumen scariosum, compressum v. inflatum, sutura seminifera recta, altera arcuata, sero apice dehiscens, polyspermum. Semina reniformia. *Herbæ in Cap. B. Spei crescent.* Endl. 6563.

L. *brachystacha,* DC. Legumen breviter stipitatum, membranaceum, oblongum, rectum, pendulum, 10-spermum. Cap. B. Spei.—TAB. XXXVIII. f. 2. Legumen apertum; *a,* semen valde actum; *b,* embryo auctus.

COLUTEA. *Linn.*

Legumen stipitatum, cymbiformi-ovatum, inflato-vesiculosum, scariosum, clausum v. apice hians, polyspermum. Semina reniformia. *Frutices Europæ australis et Asiæ mediterraneæ.*—Endl. 6561.

C. *arborescens,* Linn. Legumen stipitatum inflatum clausum. Europa australi.—TAB. XXXVII. f. 25. Legumen cum seminibus.

C. *cruenta,* Ait. Legumen apice hians. Orient. &c.—TAB. XXXVIII. f. 3. Legumen et semen.

HALIMODENDRON. *Fisch.*

Legumen stipitatum inflatum, ovatum, durum, oligospermum, ad suturam seminiferam depressum. Semina ovalia subcompressa, parva, lævia. *Frutex sibiricus.*—Endl. 6559.

H. *argenteum,* DC. *Robinia Halimodendron,* Linn. f. *Caragana argentea,* Lam.—TAB. XXXVIII. f. 4 (*ic. a Pall. fl. ross.*).

CARAGANA. *Lam.*

Legumen sessile, junius compressum, demum subcylindricum, stylo mucronatum, polyspermum. Semina subglobosa.—*Endl.* 6557.

C. *spinosissima,* Bth. Legumen rectum, lineare, apiculatum, extus et intus rufo-hirsutum. *Astrag. spinosissimus,* Wall. Cat. 5935. In montib. Himalayæ.—TAB. XXXVIII. f. 5.

DIPHYSA. *Jacq.*

Legumen lineare, compresso-planum, obtusum, 1-loc. 5-6-spermum, utrinque acutum, vesica longitudinali membranacea, maxima inflata, e suturis oppositis orta, tandem, vescicis sive destructis sive integris, transversim in frustra delabens. Semina oblonga, compressiuscula. *Arbuscula Carthagenensis.*—Endl. 6555.

D. *Carthagenensis,* Jacq.—TAB. XXXVIII. f. 6. Legumen; *b,* semen; (*a,* errore introd. *ic. a Lam.*).

AGATI. *Rheed.*

Legumen basi in stipitem brevem angustatum, elongato-lineare, compressiusculum, polyspermum, inter semina contractum et isthmis transversim multilocellatum. Semina ovalia. *Arbusculæ Asiæ tropicæ.*—Endl. 6553.

A. *grandiflora,* Desv. Legumen stipite (in majoribus) bipollicari, 12-20-poll. longum, falcatum, apice acuminatum, valvis longitudinaliter reticulatis, 20-40-spermum. *Æschynomene,* Linn. *Sesbania,* Poir. *Coronilla,* Willd. *Dolichos arboreus,* Forsk. India Orient.—TAB. XXXVIII. f. 7 (*ic. a specimine minori in Herb. T. S. R.*).

HERMINIERA. *Guil. et Perrot.*

Legumen lineari-oblongum, compressum, demum spiraliter tortum, stylo apiculatum, hexa-decaspermum, inter semina subtorosum. Semina reniformia. *Frutex Senegambicus.* Endl. 6552.

H. *elaphroxylon,* Guil. et Perr. *fl. Senegam.* Legumen hirsutum 3-poll. long. 4-lin. lat. Semina nitido-fulva, hylo albido, cotyledonibus viridibus, crassiusculis, foliaceis, radicula accumbenti. Senegambiâ. TAB. XXXVIII. f. 8. Legumen, semen auctum (*ic. l. c.*).

SESBANIA. *Pers.*

Legumen elongatum, gracile, compressum v. cylindricum, suturis incrassatis, polyspermum, inter semina contractum et isthmis transversim multilocellatum. Semina transverse cylindraceo-oblonga. *Frutices v. herbæ totius orbis tropici, et Americæ boreali-calidioris.*—Endl. 6551.

S. *Ægyptiaca,* Pers. Legumen compresso-teretiusculum, torulosum. *Æschynomene,* Linn. *Coronilla,* Willd. Senegaliâ, India Orient.—TAB. XXXVIII. f. 9. Legumen integrum, valvulæ pars, et semen auctum et magn. nat.

S. *pachycarpa,* Guil. et Perrot. Legumen lineare subteres, in utraque sutura duplici margine prominulo instructum, loculamentosum, 25-35-spermum; valvis crassis, ruguloso-furfuraceis. Semina ovali-cylindracea, nitida, virescentia, hylo albido minimo notata. Senegambia.—TAB. XXXVIII. f. 10. Legumen, et semen auctum (*ic. l. c.*).

GLOTTIDIUM. *Desv.*

Legumen longe stipitatum, elliptico-oblongum, compressum, utrinque acutum, stylo mucronatum, dispermum, epicarpio coriaceo-bivalvi, ab endocarpio membranaceo, semina includente soluto. Semina transverse oblonga, compressa. *Herba Americæ boreali-calidioris.* Endl. 6550.

G. *Floridanum,* DC. *Robinia vesicaria,* Jacq. *Phaca,* Willd. *Sesbania,* Spreng. &c. in Florida et Carolina.—TAB. XXXVIII. f. (11 omissa). Legumen integrum, et valvulæ 2 solutæ cum endocarpio semina includente (*ic. a Jacq.*).

ROBINIA. *Linn.*

Legumen stipitatum, elongatum, compressum, ad suturam seminiferam marginatum, bivalve, polyspermum. Semina reniformia. *Arbores v. frutices Americæ borealis.*—Endl. 6546.

R. *Pseudacacia,* Linn. *Æschinomene,* Rxb. *Pseudacacia odorata,* Mœnch. Canada et Carolina.—Tab. xxxviii. f. 12 (*ic. a Gærtn.*).

XIPHOCARPUS. *Presl.*

Legumen stipitatum, elongato-lineare, compressum, polyspermum, bivalve, valvis planis. Semina reniformia. *Arbor Indica.*—Endl. 6543.

X. *Martinicensis,* Presl. Legumen lineari-compressissimum, adpresse pubescens, stylo longo apiculatum. *Tephrosia candida,* DC. *Robinia,* Rxb. Bengalia.—Tab. xxxviii. f. 13. Legumen et semen (*ic. a Presl Symb.*).

BRONGNIARTIA. *H. B. K.*

Legumen stipitatum, cultriforme, compressum, subheptaspermum, intus substantia spongiosa vestitum, bivalve. Semina lenticularia. Embryo rectus. *Frutices Americæ tropicæ.* Endl. 6541.

B. *mollis,* H. B. et K. Legumen vix torulosum, valvis coriaceis; semina 7, hilo parvo elliptico, cotyledonibus plano-convexiusculis, carnosis. N. Hispania.—Tab. xxxviii. f. 14. Legumen, valvula cum seminibus, et embryo (*ic. ex Humb. N. Gen.*).

HARPALYCE. *Moç. et Sess.*

Legumen oblongum compressum, coriaceum, bivalve intus transverse multiloculare. Semina oblonga, strophiolata. Embryo rectus. Cotyledones carnosæ, radicula brevissima. *Herbæ Mexicanæ.*—Bth. *in Hooker's Journ. Bot.* iii.

H. *Braziliana,* Bth. Legumen rectum glabrum, 2-3-poll. longum, 6-lin. latum, intus dissepimentis transversalibus cartilagineis inter semina septatum. Semina fusca, funiculo 1½-lin. longo, strophiola crassa albida, testa dura lævi. Brazilia.—Tab. xxxvii. f. 17 (*ic. l. c.*).

H. *formosa,* Moc. et Sess. Mexico.—Tab. xxxvii. f. 18 (*ic. l. c.*).

TEPHROSIA. *Pers.*

Legumen lineare, compressum, rectum v. falcatum, sessile v. stipitatum, continuum v. isthmis transversis inter semina interceptum. Semina compressa v. angulata. *Arbores, frutices, suffrutices et herbæ orbis tropici subtropicique.*—Endl. 6539.

T. *incana,* Grah. Legumen superne falcatum, obtusum, fulvo-lanatum, 6-8-spermum. India Orient. Tab. xxxviii. f. 15 (*ic. a Wght. Ic.*).

T. *senticosa,* Pers. Legumen compressum glabrum. Zeylonia.—Tab. xxxviii. f. 16 (*ic. a Wght. Ic.*).

T. *tinctoria,* Pers. Legumen subrectum, compressum, 8-12-spermum. India Orient.—Tab. xxxviii. f. 17 (*ic. a Wght. Ic.*).

GALEGA. *Tournef.*

Legumen teretiusculum, torulosum, oblique striatum, polyspermum. Semina cylindracea. *Herbæ Europæ australis et orientis.*—Endl. 6533.

G. *officinalis,* Linn.—Tab. xxxviii. f. 18. Legumen integrum, valvulæ solutæ, et semen.

GLYCYRHIZA. *Tournef.*

Legumen ovatum v. oblongum, compressum, sæpe echinatum, di-tetraspermum. Semina reniformia compressa. *Herbæ in temperatis hemisphæræ borealis crescentes.*—Endl. 6532.

Gl. *glabra,* Linn. Legumen glabrum, 3-4-spermum. *Liquiritia officinalis,* Mœnc. Europa Austr. Tab. xxxviii. f. 19.

Gl. *echinata,* Linn. Legumen ovale mucronatum, setis echinatum 2-spermum. Tartaria.—Tab. xxxviii. f. 20.

INDIGOFERA. *Linn.*

Legumen teretiusculum v. tetragonum, rectum v. falcatum, polyspermum v. abortu monospermum, inter semina isthmis membranaceis solubilibus distinctum. Semina cubica. *Frutices, fruticuli v. herbæ regionum tropic. et subtropic. totius orbis.*—Endl. 6530.

I. *Anil,* Linn. Legumen compressum, non torulosum, deflexum, arcuatum, sutura utraque calloso-prominula. America equinoxiali, India culta.—TAB. XL. f. 1. Legumen auctum, et valvula cum seminibus; *a,* semen mag. nat.; *b,* auctum; *c,* sectio ejusdem; *d,* embryo.

PSORALEA. *Linn.*

Legumen calyce inclusum, membranaceum, indehiscens, monospermum. Semen interdum cum endocarpio coalitum. *Frutices v. herbæ Americæ borealis.*—Endl. 6526.

Ps. *bituminosa,* Linn. Legumen parvum ex ventre ovato in rostrum acinaciforme membranaceum, subcaducum hispidum desinens. Semen obovato-reniforme lenticulare, atrum. Europa australis.—TAB. XXXIX. f. 1; *a,* legumen integrum; *b,* idem apertum semen in situ exhibens; *c,* sectio transversalis ejusdem, et embryo.

AMORPHA. *Linn.*

Legumen compressum, oblongum, incurvum v. lunulatum, glanduloso-tuberculatum, sero dehiscens, mono-dispermum. Semina oblonga ovalia v. subreniformia. *Frutices v. suffrutices boreali Americani.*—Endl. 6524.

A. *fruticosa,* Linn. Carolina et Florida.—TAB. XXXIX. f. 2. Legumen integrum et apertum cum seminibus, et embryo auctus.

CARMICHÆLIA. *R. Br.*

Legumen compressum, mono-trispermum, margine post valvarum lapsum persistente. Semina reniformia, umbilico clauso, sinu nudo. *Frutex N. Zeelandiæ.*—Endl. 6568.

C. *australis,* R. Br.—TAB. XXXVII. f. 24. Legumen cum valvulis partitis, et margo cum semine.

TRIFOLIEÆ, *DC.*—Legumen uniloculare.

TETRAGONOLOBUS. *Scop.*

Legumen rectum, subcylindricum, quadrialatum, polyspermum, isthmis cellulosis inter semina interceptum. *Herbæ Europæ mediæ et australis.*—Endl. 6515.

T. *siliquosus,* Roth. Legumen glabrum, angustissime alatum.—TAB. XXXIX. f. 3; *a,* legumen integrum; *b,* idem transverse sectum; *c,* idem dehiscens, semina magn. nat. et auctæ (*ic. a Gærtnero*).

TRIFOLIUM. *Tournef.*

Legumen parvum uniloculare, mono-tetraspermum, nunc sessile, tubo calycino indurato et ad faucem constricto inclusum, nunc stipitatum et exsertum, tenuissime membranaceum, indehiscens, irregulariter ruptile. *Herbæ regionum temperat.*—Endl. 6511.

T. *spumosum,* Linn. Legumen oblongum, in stylum setaceum desinens. Semina 4, subglobosa.—TAB. XXXIX. f. 4; *a,* legumen calyce involutum; *b,* idem apertum calyce denudatum; *c,* embryo.

T. *resupinatum,* Linn. Legumen parvulum, obovatum, semina ovata.—TAB. XXXIX. f. 5; *a,* legumen calyce clausum; *b,* legumen valde auctum; *c,* idem apertum, semen auctum, et magn. nat. (*ic. a Gærtnero*).

MELILOTUS. *Tournef.*

Legumen calycem immutatum superans, 1-4-spermum, membranaceum v. coriaceum, indehiscens, rugosum v. venosum. *Herbæ Europæ mediæ, &c.*—Endl. 6510.

M. *polonica,* Pers. Legumen ovatum, lacunoso-rugosum, subbadium, 2-spermum, seminibus ovoideis

punctato-rugosis atris. Polonia.—Tab. xxxix. f. 6. Legumen auctum, semen et embryo (*ic. a Gærtnero*).

M. *Indica,* Linn. *M. parviflora,* Desf. Legumen ovatum, lacunoso-rugosum, 1-spermum; semen ovoideum.—Tab. xxxix. f. 7. Legumen (*a*) magn. auct.

M. *cretica,* Linn. *vide* Pocockia.

POCOCKIA. *Ser.*

Legumen ovale, compressum, membranaceum, transverse rugosum, samaroideum, sutura vexillari anguste alatum, 1-2-spermum. *Herba cretica.*—Endl. 6509.

P. *cretica,* Ser. *MSS.* Legumen transverse rugosum; semina ovato-oblonga, compressa, punctato-rugosa. *Melilotus cretica,* Linn. Creta.—Tab. xxxix. f. 8. Legumen integrum et apertum, embryo auctus.

TRIGONELLA. *Linn.*

Legumen lineare v. oblongo-lineare, compressum v. cylindricum, acuminatum, sæpe nervis striatum v. rugosum, polyspermum. *Herbæ regionis mediterraneæ et Asiæ mediæ.* Endl. 6508.

T. *Fœnugræcum,* Linn. Legumen falcatum, longitudinaliter reticulatum, polyspermum; seminibus magnis ovatis, punctato-rugosis, radicula prominula. Gallia.—Tab. xxxix. f. 9. Legumen apertum; *a,* sectio leguminis; *b,* seminis sectio et semina (*ic. a Gærtn.*).

T. *spinosa,* Linn. Legumen arcuatum, compressum, longissimum, transverse arcuato-venosum, polyspermum, seminibus oblongis. Abyssinia.—Tab. xxxix. f. 10.

MEDICAGO. *Linn.*

Legumen falcatum v. cochleatum, mono-polyspermum. *Herbæ v. frutices inermes Europæ mediæ et australis.*—Endl. 6507. (*Descriptiones et icones a Flora Sardoa,* Moris.)

M. *circinnata,* Linn. Legumen reniforme, margine dentatis, dentibus bifidis ramosisque, biloculare; semina reniformia.—Tab. xxxix. f. 11. Legumen magn. nat.; *a,* idem auctum, et apertum cum seminibus.

M. Scutellata, All. Legumen globoso-depressum, spiris 5-6, membranaceis, concavo-concentricis, oblique nervoso-reticulatis.—Tab. xxxix. f. 12. Legumen magn. nat. semen auctum.

M. *orbicularis,* All. Legumen cochleatum, orbiculatum, spiris 2-5, membranaceis, radiatim nervoso-reticulatis; semina subovata, verruculosa.—Tab. xxxix. f. 13.

M. *Helix,* Willd. Legumen glabrum, utrinque planum, 2-3-spermum; spiris 2-4, radiatim nervoso-reticulatis.—Tab. xxxix. f. 14. Legumen magn. nat.; *a,* idem auctum, et semen.

M. *littoralis,* Rohde. Legumen cylindricum, glabrum, utrinque planum, spiris 3-6, demum appressis, margine crasso, obsolete bisulcato.—Tab. xxxix. f. 15. Legumen; *a,* idem auctum et explicatum.

M. *tribuloides,* Willd. Legumen cylindricum, pilosiusculum glabrumve, utrinque planum; spiris 3-6, demum appressis, margine utrinque sulcato aculeatoque, aculeis incurvis appressisve.—Tab. xxxix. f. 16. Legumen et semen.

M. *turbinata,* Willd. Legumen utrinque convexum, cylindraceo-ovale, globosumve; spiris subsenis, margine crasso, subconcreto, uninervio, gemino ordine obsolete verruculoso, breviterve tuberculato aculeatove.—Tab. xxxix. f. 17. Legumen et semen; *a,* fructus aculeatus; *b,* legumen explicatum.

M. *sphærocarpa,* Bertol. Legumen globosum vel ovale; spiris 5-8, arctissime appressis, margine crasso, planiusculo striatoque, læviusculo anticeve tuberculato aculeatove, aculeis conico-subulatis, incurvis rectisve.—Tab. xxxix. f. 18. Legumina duo et semen.

M. *ciliaris,* Willd. Legumen laxe cochleato-subglobosum, villosum, utrinque convexum, spiris 6-8, margine crasso, planiusculo, utrinque spinoso, spinis canaliculatis, divergentibus, rectiusculis, subadpressis patulisve; seminibus nigris.—Tab. xxxix. f. 19. Legumen et semen auctum.

M. *Echinus,* DC. Legumen laxe cochleato-ovale globosumve, glabrum, utrinque convexum; spiris 6-9, margine planiusculo, utrinque confertim tuberculato spinosove, spinis incurvis, divaricatis, adpressissimis, intertextis, canaliculatis; seminibus nigris.—Tab. xxxix. f. 20. Legumen et semen auctum; *a,* pars leguminis explicati.

GENISTEÆ, *DC.*—Legumen uniloculare.

GENISTA. *Linn.*

Legumen compressum v. rarius subturgidum, oligo-polyspermum. Seminum strophiola lunata, persistens. *Frutices inermes v. spinosi Europæ mediæ et australis.*—Endl. 6500.

G. *candicans,* Linn. Legumen hirsuto-villosum. Italia, &c.—TAB. XXXIX. f. 21. Legumen, et valvulæ apertæ; semen magn. nat. et auctæ, ejusdem sectio et embryo (*ic.* a *Gærtn.*).

SAROTHAMNUS. *Wimm.*

Legumen lineari-oblongum, compressum, polyspermum. Semina caruncula biloba, decidua. *Fruticulus Europæ mediæ et australis.*—Endl. 6499.

S. *Scoparius,* Wimm. Legumen oblongum, compressum, villosum, nigricans; sutura seminifera intus lato margine distincta. Semina oblongo-elliptica, compressa. *Spartium Scoparium,* Linn.—TAB. XXXIX. f. 22. Legumen integrum, et apertum, et semen auctum (*ic. a Gærtn.*).

ULEX. *Linn.*

Legumen vix calyce longius, turgidum, oligospermum. *Frutices Europæ australis.* Endl. 6495.

U. *Europæus,* Linn. Legumen oblongum, villosum, uniloculare; semina triangulari-reniformia, umbilico prominente bilabiato. Europa.—TAB. XXXIX. f. 23. Legumen integrum, valvula ejusdem; semen magn. nat. et auct. et sectio ejusdem (*ic. a Gærtn.*).

ONONIS. *Linn.*

Legumen turgidum, oligospermum. *Herbæ v. frutices Europæ et regionis mediterraneæ.* Endl. 6493.

O. *spinosa,* Wall. Legumen oblique ovatum, stylo persistente uncinulatum. Semina reniformi-globosa, scabra.—TAB. XXXIX. f. 24. Legumen et valvula cum seminibus; semen auctum et embryo.

ASPALATHUS. *Linn.*

Legumen oblongum, sæpe obliquum, mono-trispermum. *Frutices v. suffrutices capenses.* Endl. 6482.

A. *spinosus,* Linn. Legumen subobliquum, pubescens.—TAB. XXXIX. f. 25. Legumen et valvula, semen et embryo auctus.

HYPOCALYPTUS. *Thunb.*

Legumen substipitatum, lanceolatum, compressum, polyspermum. *Frutex capensis.* Endl. 6477.

H. *obcordatus,* Thunb.—TAB. XXXIX. f. 26. Leguminis valvula, et seminis aucti sectio.

XEROCARPUS. *Guill. et Perr.*

Legumen acinaciforme, subinflatum, membranaceum, sutura superiore dehiscens, polyspermum. Semina reniformia. *Herba Senegambica.*—Endl. 6674.

X. *hirsutus,* Guill. et Perr. Senegambia.—TAB. XXXIX. f. 27. Legumen integrum et apertum, et semen, omnia aucta (*ic. a Guill. et Perr.*).

LUPINUS. *Tournef.*

Legumen coriaceum, oblongum v. lineare, compressum v. teretiusculum, di-polyspermum, isthmis oblique transversis inter semina interceptum. *Herbæ, suffrutices v. frutices regionum calid. et subtropicarum.*—Endl. 6473.

L. *pilosus,* Linn. (*L. varius,* Gærtn.). Legumen latissimum, villosum, torosum. Semina irregulariter rotundata, supra umbilicum rostrata. Europa.—Tab. xxxix. f. 28. Legumen integrum, valvula ejusdem, semen apertum, et embryo (*ic. a Gærtn.*).

CROTALARIA. *Linn.*

Legumen turgidum, valvis ventricosis, inflatis, rarissime plano-compressum, di-polyspermum. Semina reniformia, compressa. *Herbæ v. frutices Asiæ et Americæ tropicæ.*—Endl. 6472.

C. *Wallichiana,* Wght. et Arn. Legumen pedicellatum, clavato-oblongum, molliter pubescens, polyspermum. Neelgherries.—Tab. xl. f. 2. Legumen integrum et apertum (*ex Wght. Ic.*).

REQUIENIA. *DC.*

Legumen ovale, compressum, styli basi uncinatum, monospermum. *Suffrutices Cap. B. Spei et Senegambiæ.*

R. *obcordata,* DC. Legumen villoso-hirsutum, seminibus ovato-oblongis. Senegalia.—Tab. xl. f. 3.

PRIESTLEYA. *DC.*

Legumen plano-compressum, ovali-oblongum, tetra-hexaspermum. *Frutices capenses.* Endl. 6464.

P. *Myrtifolia,* DC. Legumen adpresse villosum.—Tab. xl. f. 4.

RAFNIA. *Thunb.*

Legumen lanceolatum, compressum, polyspermum. *Suffrutices capenses.*—Endl. 6459.

R. *angulata,* Thunb. Legumen pedicellatum, compressum, stylo mucronatum. Cap. B. Spei.—Tab. xl. f. 5. Legumen integrum; *a,* idem apertum.

BOSSIÆA. *Vent.*

Legumen pedicellatum, plano-compressum, sutura utraque incrassatum, polyspermum. *Frutices v. suffrutices N. Hollandiæ.*—Endl. 6455.

B. *microphylla,* Sm. N. Holland. orient. et austr.—Tab. xl. f. 6. Legumen integrum; *a,* valvula; *b,* semen.

PLATYLOBIUM. *Smith.*

Legumen compresso-planum, sutura seminifera alatum, polyspermum. Semina strophiolata. *Frutices N. Hollandiæ orientalis.*—Endl. 6454.

Pl. *formosum,* Sm. Legumen stipite unilaterali dorsali, oblongo-compressum, valvulis marginem seminiferum versus nervo undulato notatis, apice mucronatis.—Tab. xl. f. 7; *a,* legumen integrum; *b,* idem apertum; *c,* semen.

PODALYRIEÆ. *Benth.*

Legumen bivalve, rarissime indehiscens, et tunc calyce brevius. Embryonis cotyledones germinatione foliaceæ, radicula incurva.

MIRBELIEÆ, *Benth.*—Leguminis sutura utraque v. superior seminifera introflexa.

MIRBELIA. *Smith.*

Legumen ovoideum, ventricosum, bivalve, longitudinaliter subbiloculare, valvarum margine seminifero longe, altera breviter introflexo, valvis coriaceis, apice bifidis. Semina 2 v. plura, estrophiolata. *Fruticuli Novæ Hollandiæ.*—Endl. 6448.

M. *speciosa,* Sieb. Legumen antice et postice compressum, seminibus ovatis, nigris, rugatis. N. S. Wales.—TAB. XL. f. 8; *a,* legumen integrum; *b,* valvulæ partitæ, apice resecto; *c,* sectio transversalis; *d,* semen.

PULTENEÆ, *Benth.*—Leguminis suturæ haud introflexæ.

PULTENÆA. *Smith.*

Legumen ovatum, compressum v. subventricosum, acutum v. obtusum. Semina strophiolata. *Fruticuli N. Hollandiæ.*—Endl. 6446.

P. *juniperina,* Labill. Ins. Van Diemens et N. Hollandia.—TAB. XL. f. 9. Legumen et semen.

DAVIESIA. *Smith.*

Legumen plano-compressum, sutura seminifera rectiuscula, altera valde incurva, subtriangulare, elastice dehiscens. Semina stropiolata. *Fruticuli v. suffrutices N. Hollandiæ.*—Endl. 6435.

D. *Mimosoides,* R. Br. Legumen planum, glabrum, valvulis dehiscentia involutis.—TAB. XL. f. 10; *a,* legumen; *b,* valvula; *c,* semen.

EUPODALYRIEÆ, *Benth.*—Leguminis suturæ haud introflexæ.

GOMPHOLOBIUM. *Smith.*

Legumen inflatum, subspæricum. Semina estrophiolata. *Frutices v. suffrutices N. Hollandiæ.*—Endl. 6432.

G. *latifolium,* Sm. Legumen subrhomboideum v. globosum.—TAB. XL. f. 11; *a,* et *b,* legumen integrum; *c,* valvula.

CHOROZEMA. *Labill.*

Legumen sessile v. breviter stipitatum, ovatum, ventricosum, intus nudum. Semina estrophiolata. *Herbæ, suffrutices v. frutices N. Hollandiæ.*—Endl. 6431.

CH. *cordatum,* Lind. Legumen stipitatum, inflatum; semina elongato-reniformia, lateribus concavis, funiculis longis suffulta. Swan River.—TAB. XL. f. 12. Legumen et semen.

OXYLOBIUM. *Andr.*

Legumen ovatum, acutum, sessile, coriaceum v. vix membranaceum, turgidum, uniloculare, valvulis intus lævibus. Semina estrophiolata. *Fruticuli v. suffrutices N. Hollandiæ.* Endl. 6427.

O. *ellipticum,* R. Br.—TAB. XL. f. 13. Legumen et valvula, et semen.

DALHOUSIA. *Wall.*

Legumen plano-compressum, oligospermum. Embryo pleurorhizeus. *Frutex Indicus.* Endl. 6424.

D. *bracteata,* Wall. Legumen oblique oblongum, utrinque acuminatum; semina 2-3, inæqualia *Podalyria,* Rxb.—TAB. XL. f. 14. Legumen; *a,* seminis sectio transversalis; *b,* embryo (*ic. a Rxb.*).

BAPTISIA. *Vent.*

Legumen stipitatum, inflatum. *Herbæ boreali-americanæ.*—Endl. 6421.

B. *australis,* R. Br. Legumen longe stipitatum, lineari-oblongum, utrinque acuminatum, sutura seminifera parum introflexa, seminum funiculis lignosis, persistentibus. *Podalyria australis,* Vent. Carolina occident.—TAB. XL. f. 15. Legumen sutura seminifera apertum, et semen.

THERMOPSIS. *R. Br.*

Legumen compressum, oblongo-lineare v. falcatum. *Herbæ Asiæ et Americæ borealis.* Endl. 6420.

Th. *barbata,* Bth. *in Royle Illust.*—Tab. xl. f. 16; *a,* legumen; *b,* legumen abnormale; *c,* embryo (*ic. l. c.*).

Th. *inflata,* Cambess. *in Jacq. voy.* India Orient.—Tab. xl. f. 17. Legumen (*ic. l. c.*).

ANAGYRIS. *Linn.*

Legumen stipitatum, oblongo-lineare, compressum, bivalve, extus sæpe isthmis irregulariter interruptum. *Frutices Europæ mediterraneæ, &c.*—Endl. 6418.

A. *fœtida,* Linn.—Tab. xl. f. 18. Legumen, et valvula, et semen (*ic. a Lam.*).

General Observations on the Fruit of Leguminosæ.

The fruit of Leguminosæ is a single carpel, whose seminiferous suture is constantly directed towards the vexillum or upper petal of the flower: from analogy, and from the fact of several genera of this vast family being found with two or even more ovaria in one flower, it is now generally admitted that the normal number of the carpels of Leguminosæ is 5, and that 4 of these prove almost constantly abortive. This view is also borne out by the circumstance of the excentric position of this organ (the ovary) in the flower.

In *Gleditschia* the ovary has been found formed of two carpels, united by the seminiferous sutures; the same has been remarked in *Spartium junceum* and *Phaseolus vulgaris. Cæsalpinia digyna* presents the same phenomenon; and Loureiro has described the same in a genus named *Diphaea.* DeCandolle supposes the wing of the seminiferous suture of several *Pterocarpi,* and other analogous legumes, to be but the rudiment of a second undeveloped carpel; and the same of the 2 stigmata in *Ormosia*; and that the only existing example of a leguminous plant, with 3 carpels, occurs in *Moringa.*

The carpel of Leguminosæ is formed by a leaf folded on its midrib, so that the halves of the leaf form the valves, and the *superior, vexillary, anterior, ventral,* or *seminiferous* suture, is that formed by the union of the margin of the leaf, the *inferior, carinal, posterior,* or *dorsal* suture being the midrib, which tends to dehiscence at maturity, but less readily than the superior. The valves may be either very long or short, flattened and parallel, or more or less convex or curved. The sutures may be thickened and folded inwards, so as to form a middle partition, and divide the legume into two longitudinal cavities.

The valves may be continuous through their length, or divided transversely, thus giving rise to a transversely articulated carpel, as in the *Hedysareæ.* Between the seeds false transverse membranous septa of cellular tissue may be formed, dividing the legume more or less completely into cavities, as in some *Cassiæ* and *Phaseoleæ.*

The interior of the legume sometimes secrets particular juices; 1. Watery, acid or astringent, containing the acrid and nauseous extractive matter of Leguminosæ, as in *Sophora* and *Gleditschia,* with pulpy fruits; 2. A true pulp of a sweet taste, and red or brown colour, and endowed with laxative properties, as in *Cassia, Inga,* &c.; 3. Some contain, as in *Myrospermum,* an odorous, volatile, balsamic juice.

The valves are, for the most part, foliaceous or membranaceous: to this there are some exceptions. Sometimes the pericarp becomes more or less woody, as in *Cathartocarpus fistula*; sometimes the mesocarp becomes thick and fleshy, and is filled with an acid and laxative pulp, as in *Tamarindus,* the endocarp and epicarp remaining membranous; the mesocarp is of a fleshy consistence in *Codarium,* and the half fleshy mesocarp of the *Courbier* forms the edible portion of the fruit. Sometimes the inner part or endocarp of the legume alone becomes ligneous or bony, then the mesocarp generally assumes a fleshy character; thus the fruits of *Geoffroya, Cordyla* and *Detarium,* are legumes by the arrangement of their parts and drupes by consistence. The true drupes of *Amygdalus* are not different; the woody or membranous endocarp remains on the fruit of *Entada,* while the mesocarp and epicarp are separated at maturity.

The usual appendages of hairs, glands and prickles, veins, wings, crests and tubercles, are more or less present on the exterior of leguminous fruits.

The umbilical cords or funiculi always arise from the vexillary or superior suture, and when they appear to arise from the carinal or inferior, this is owing to a half-turn taken by the fruit on its pedicel, as in *Robinia,* &c., or to the growth of the cell in the direction of the vexillary suture. (See *Dalbergieæ,* p. 47.)

In *Mimoseæ* the funiculi are long; in *Afzelia* they become thickened into a fleshy or membranous arillus. The natural and more frequent position of the seeds is horizontal, but in some instances they assume an erect or pendent position, which chiefly occurs in cases of abortion.

The Spermoderm of the seed of Leguminosæ consists, as in other seeds, of the Testa, the Endopleura, or its inner membrane, and the vascular net-work or Mesosperm. The Testa is usually smooth, often of a shelly or stony consistence, sometimes variously coloured, as in *Phaseoleæ,* rarely striated or tuberculated. The Mesosperm is seldom very apparent. The Endopleura is generally membranous, sometimes very thick, when it has been described as Albumen.

The Embryo takes two principal directions,—the straight radicle, in the direction of the Cotyledons, and the curved radicle, or that bent on the commissure of the Cotyledons. Leguminosæ, with curved Embryoes, have been called *Curvembryæ*; the Embryo itself *homotropous* or *pleurorhizous*; those with the straight radicle are called *Rectembryæ*; the Embryo *orthotropous* or straight. The extremity of the radicle is, in Leguminosæ, directed to the cicatrix of the seed; consequently, in the straight embryo, the cicatrix is situated at the extremity of the seed, which assumes an oval, or orbicular oblong, or transversely oblong form, as in *Arachis.* But when the radicle is curved, the cicatrix is found on one of the apparent sides of the seed, which then usually presents a reniform appearance; or, if it is oval, the cicatrix exists on one of its sides, in the middle, or at one end.

The Cotyledons also present two different states: sometimes these organs are very thin and foliaceous, and during germination become transformed into true leaves furnished with stomates, as in *Sophoreæ, Loteæ, Hedysareæ,* some *Mimoseæ* and *Cassieæ*; at others they are fleshy and thick, more or less farinaceous, and are not changed into leaves in germination, as in *Vicieæ, Phaseoleæ, Dalbergieæ, Swartzieæ.* Hence the thin foliaceous cotyledons of Leguminosæ are allied to properties of an acrid and nauseous nature, and consequently unfit for food; while those with thick Cotyledons are edible, and comprise the most usual aliments of the human race.—*DC. ex parte.*

Mimoseæ.

The fruit of true *Ingas* is usually much thicker and more fleshy than that of *Pithecolobium,* seldom twisted, but always with a remarkably thick margin. In *Pithecolobium* the legume is fleshy or pulpy, the valves being often twisted at dehiscence. *Enterolobium* differs only in the form of its fruit.

Calliandra is remarkable for the manner in which the valves of the fruit roll back.

In *Acacia* the character of the fruit is very variable, passing from a thin flat and membranaceous form to a cylindrical, almost woody one, as in *A. Farnesiana.*

Albizzia is furnished with a fruit closely resembling that of some *Acacias.*

In *Lysiloma* the character of the legume resembles more that of a *Mimosa,* and perhaps *Albizzia* in appearance.

Schrankia is remarkable for a fruit somewhat resembling that of *Acacia* in the continuity of the valves, and that of *Mimosa* in the separation of the narrow valves at maturity from the costæ or margins, when the fruit assumes a spuriously quadrivalvular form.

Leucæna approaches to *Acacia* and *Albizzia.*

Gagnebina differs from *Acacia* in its transversely multilocular indehiscent legume, and from all the *Mimosæ* by the prolongation of each suture into a narrow wing.

Entada possesses the lomentum of a gigantic form of *Mimosa,* with the addition of the separation of the exocarp from the endocarp, which is indehiscent.

The fruit of *Piptadenia* resembles that of *Acacia.*

Mimosa is characterized by a flattened legume, with entire or transversely articulated valves separating from the thickened sutures.

Xylia is remarkable for its thick woody legume.

Dichrostachys approaches *Mimosa* in the partial separation of the valves from the sutures.

Neptunia in its fruit approaches *Piptadenia.*

Erythrophlæum and *Parkia* may yet be found to be the connecting genera of *Mimoseæ,* with the other sub-orders or tribes of Leguminosæ in the character of the fruit as they seem to be in that of the flower.

Lagonychium is, by Mr. Bentham, united to *Prosopis,* but seems to differ in the longitudinally bilocular form of its fruit,—a character indicating an approach to *Acacia Farnesiana.*

In *Prosopis,* a character of *Mimosa* is seen in its tendency to separate its multilocular legume into transverse portions. *P. Strombulifera* is remarkable for the closely spiral form of its fruit.

Adenanthera somewhat resembles the fruit of *Piptadenia,* except in the thick seeds and short funiculus; while a character of *Mimosa* is seen in the very partial separation of the thick sutures from the valves, which, however, ultimately roll back with elastic force.

Tetrapleura differs from all the genera of *Mimoseæ,* except *Gagnebina, Prosopis,* and *Stryphnodendron,* in its transversely multilocular fruit, furnished with its four woody ribs or wings. A description and a rude figure of this very remarkable legume is given by Clusius, *Exotica,* Lib. III. pp. 62, 63.—*Bth. ex parte.*

Cæsalpinieæ.

Among the *Cæsalpinieæ, Afzelia, Schotia,* and *Hymenæa,* are remarkable for their woody valves, and seeds furnished with an arillus; in *H. Courbaril* the seeds are individually adherent to a fibrilliform pulp, which, from the regular arrangement of its fibres, may be looked upon as an arillus entirely investing each seed, and combining them into a mass. The valves of *Schotia* separate from the margins somewhat in the same manner as in some *Mimosæ.*

The fruit of *Cassia* is very varied in its appearance and form; the cylindrical, woody, and indehiscent form prevailing in the section *Fistula,* and partly in *Chamæfistula,* in which the fruit is also membranous; and taking the compressed form, becomes dehiscent. *C. bicapsularis* is remarkable for the longitudinal septum between its valves, in addition to the transverse ones; and *C. alata* for the membranous wings on its valves. The abundant secretion of pulp in this genus, may be due to the circumstance of the increased extent of surface of the endocarp from its repeated introflexions in the form of transverse septa.

The indehiscent fruit of *Tamarindus* is usually described as having a pulpy endocarp, but the pulp is situated external to this portion of the fruit, and may be derived from the fibrous mesocarp, consisting of the few fibres beneath the exocarp; and this fruit should rather be described as having a suberous exocarp, a fibrous mesocarp, secreting an acid pulp, and a cartilaginous endocarp.

The genus *Cæsalpinia* presents several differences of character as to its fruit. *C. sappan, digyna,* and *paniculata,* with their globose seeds, approach *Guillandina,* with its echinated valves. *C. coriaria* and *tortuosa* have spongy, indehiscent valves resembling those of *Coulteria. Mezoneuron,* with its compressed, indehiscent legume and seeds of *Cæsalpinia,* is remarkable for the wing along its seminiferous suture.

Sophoreæ.

The *Sophoreæ* have, for the most part, membranaceous or coriaceous and indehiscent fruits, and appear to possess some of the characters of *Dalbergieæ* and *Cæsalpinieæ*; to which last the coriaceous woody fruit of *Macrotropis* bears some resemblance; to the former the winged stipitate fruit of *Myrospermum* approaches, the gum resinous nature of its cells being like those found in *Pterocarpus, Centrolobium,* and *Commilobium. Cercis,* with its stipitate fruit, narrowly winged on its seminiferous suture, and dehiscing by the dorsal suture, resembles the legume of *Calpurnia* and *Robinia,* and perhaps that of *Dalbergia robusta.*

Edwardsia is remarkable for its moniliform fruit with 4 wings.

Dalbergieæ.

The *Dalbergieæ* are characterized by a stipitate, indehiscent fruit, which, in some genera, as *Dipterix, Geoffroya, Euchresta? Andira, Vatairea,* and *Deguelia,* assumes a drupaceous form, with the seeds pendulous, and a straight radicle pointing to the apex of the cell; whilst, in other genera, the fruit is a flattened legume, with the margins occasionally expanded into a wing, the seeds situated in transverse cells, and having a curved embryo, with the radicle pointing to the apex of the fruit.

In *Dalbergia* the fruit is usually stipitate, with the compressed valves closely adhering between the seeds, the seminiferous margin furnished with a narrow wing in *D. robusta,* while the same form occurs to a greater extent in *Brachypterum.* In *Pongamia,* which has concave woody valves, the seminiferous suture is usually thickened, or doubly margined, as in *P. glabra* and *uliginosa*; which also occurs in *Milletia,* and seems to be still more fully produced in *Neuroscapha.*

Ateleia approaches *Dalbergia* in its fruit, winged on the seminiferous suture.

Hecastophyllum has a suberous orbicular fruit, with a straight axis; while in *Drepanocarpus* the axis becomes very much incurved.

In *Amphynemium* the axis is slightly incurved, and surrounded by a fine broad membranous wing.

In *Moutouchia* the axis is recurved, and the one-seeded fruit is attenuated into a thin winged border, along the seminiferous suture; while in *Pterocarpus* the axis is incurved, and the fruit 1-3-seeded, the carinal or dorsal suture becoming attenuated into a larger and more curved wing than the vexillary.

Echinodiscus has the fruit of *Pterocarpus* with the spinous disk of *Centrolobium.*

Machærium is winged on the seminiferous side of the apex of the fruit, and approaches *Dalbergia.*

In the remarkable fruit of *Centrolobium* there are several very interesting points for consideration. This fruit has the character of a samaroid drupe, inasmuch as the disk is readily separable into a subligneous exocarp, and a very fibrous mesocarp expanded posteriorly and upwards into a fine broad fibro-membranous wing of some extent, and an endocarp of parchment-like texture, quite distinct from the mesocarp. The drupoid character points to the drupaceous genera, while the remaining characters, viz. the transverse cells, attachment and position of the seeds, bring this genus more closely in relation to *Pterocarpus* and *Echinodiscus.* In all the species of *Pterocarpus* I have examined, the seeds were found attached either to that portion of the cell which is next to the larger curve of the fruit, viz. the carinal side, so as to appear as if really fixed to that suture, or they were inserted more than half way from the vexillary side of the cell. And in *Echinodiscus* also the same appears to be the case. In *Centro-*

lobium the ovules about the period of impregnation, and the seeds at maturity, are attached upon, or quite close to the carinal side of the cell, the raphe passing along that edge of the seed situated next to the apparent roof of the cell. Upon a very careful examination of the transverse septa, as suggested to me by Mr. Brown, traces of vessels were found passing from the vexillary to the carinal side of the cell, both in this genus as well as in *Pterocarpus*; showing that during the growth of the fruit the cell enlarges in the direction of the seminiferous suture.

This fruit is also interesting as illustrative of the morphology of the carpellary leaf, the mesocarp being so distinctly fibrous, and continuing its growth beyond and independent of the exocarp; the fibres are also very lax, and admit of an easy dissection, and the fruit, if dehiscent, will prove to be so by the dorsal suture.

Piscidia is remarkable for its 4-winged fruit.

Phaseoleæ.

The *Phaseoleæ*, with its subdivisions, retain a constancy of character in the flattened form of their valves, the presence of transverse septa, and the usually reniform seeds with incurved radicle.

Among the *Euphaseoleæ*, *Psophocarpus* is remarkable for its 4-winged fruit.

In *Erythrineæ*, the compressed and closely adherent valves of the stipitate legume of *Butea*, recall a character of *Dalbergia*, while the single terminal seed is strictly that of *Phaseoleæ*.

Erythrina has a long cylindrical fruit terminated by the remains of the style, and the pericarp contracted between the seeds; some species are decidedly dehiscent, and present also a tolerably constant character in the retroflexion or pointing backwards of the style.

In *Mucuna*, with its seeds characterized by a semicircular hylum, the legume is usually stipitate, the valves flattened and divided transversely. The retroflected style seems also constant in *M. monosperma*, *anguina*, *nivea*, and *hexandra*, while a thickening of the seminiferous sutures points also to a similar character in *Erythrina* and *Canavalia*.

In *Diocleæ*, *Canavalia* presents two ridges on each side of the seminiferous margin, while *Dioclea* is often furnished with two narrow wings along the same suture.

In *Glycineæ*, *Cyamopsis* also presents two ridges on the vexillary suture; while in *Clitorieæ*, *Centrosema*, with its long apiculate style, is doubly margined on each valve; no traces of which is to be met with in the genus *Clitoria*.

Hedysareæ.

The *Hedysareæ* possess terete or compressed legumes, transversely divided into single seeded joints; but the fruits of *Alhagi*, *Arachis*, *Onobrychis*, *Pictetia*, and *Bonaveria*, are merely constricted between the seeds. *Arachis* also differs in the straight radicle of its embryo.

Loteæ.

The *Loteæ* have the valves of the fruit continuous, and present several curious points of structure. *Astragalus* and *Oxytropis* differ, chiefly by the former having the carinal, and the latter the seminiferous suture introflexed, so as to divide the legume into two longitudinal portions.

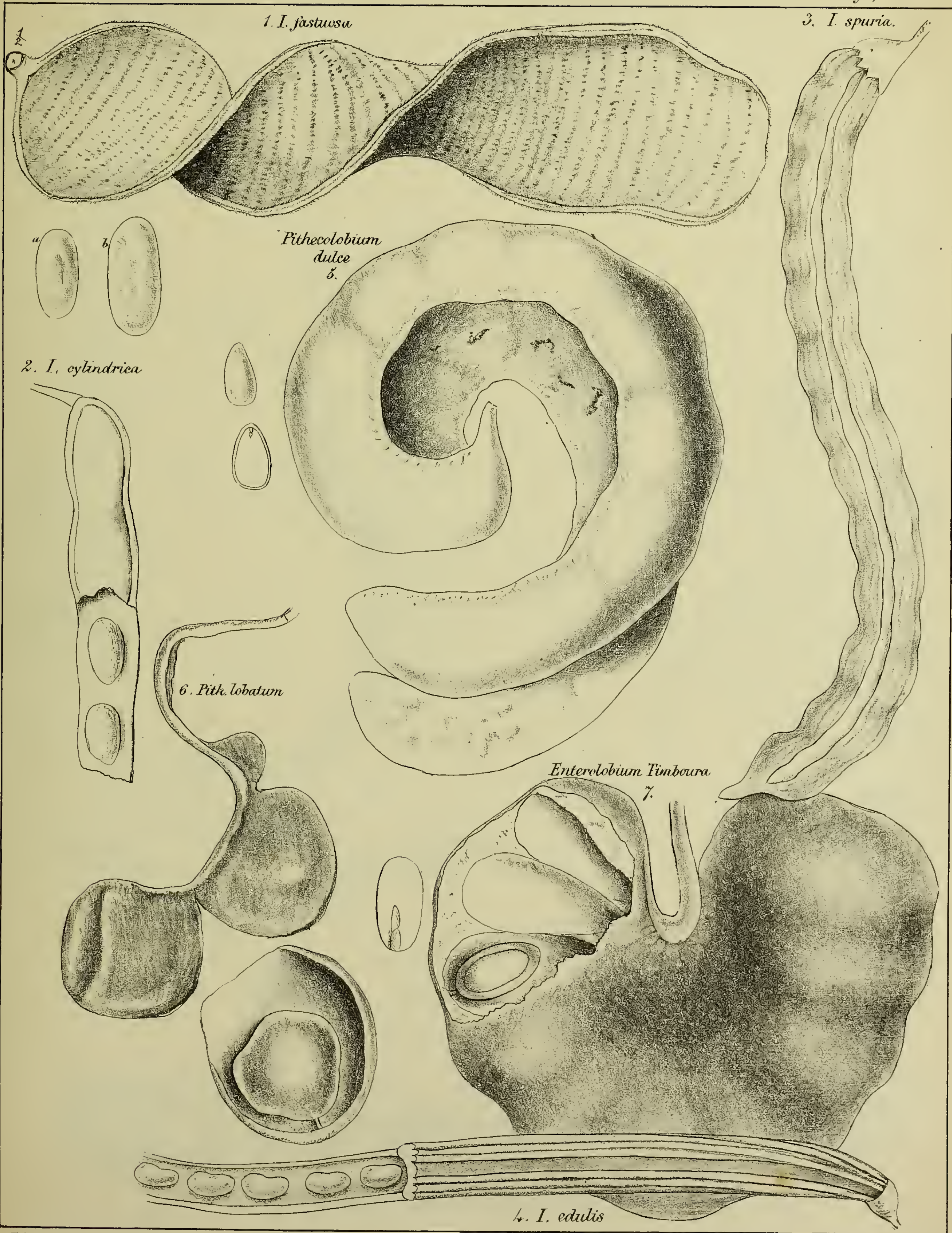
The affinity of *Harpalyce* is said by Mr. Bentham to be with *Brongniartia*, which also has the fruit of *Cassia*.

Boissiæ has the seminiferous suture thickened, while in *Platylobium* it is winged.

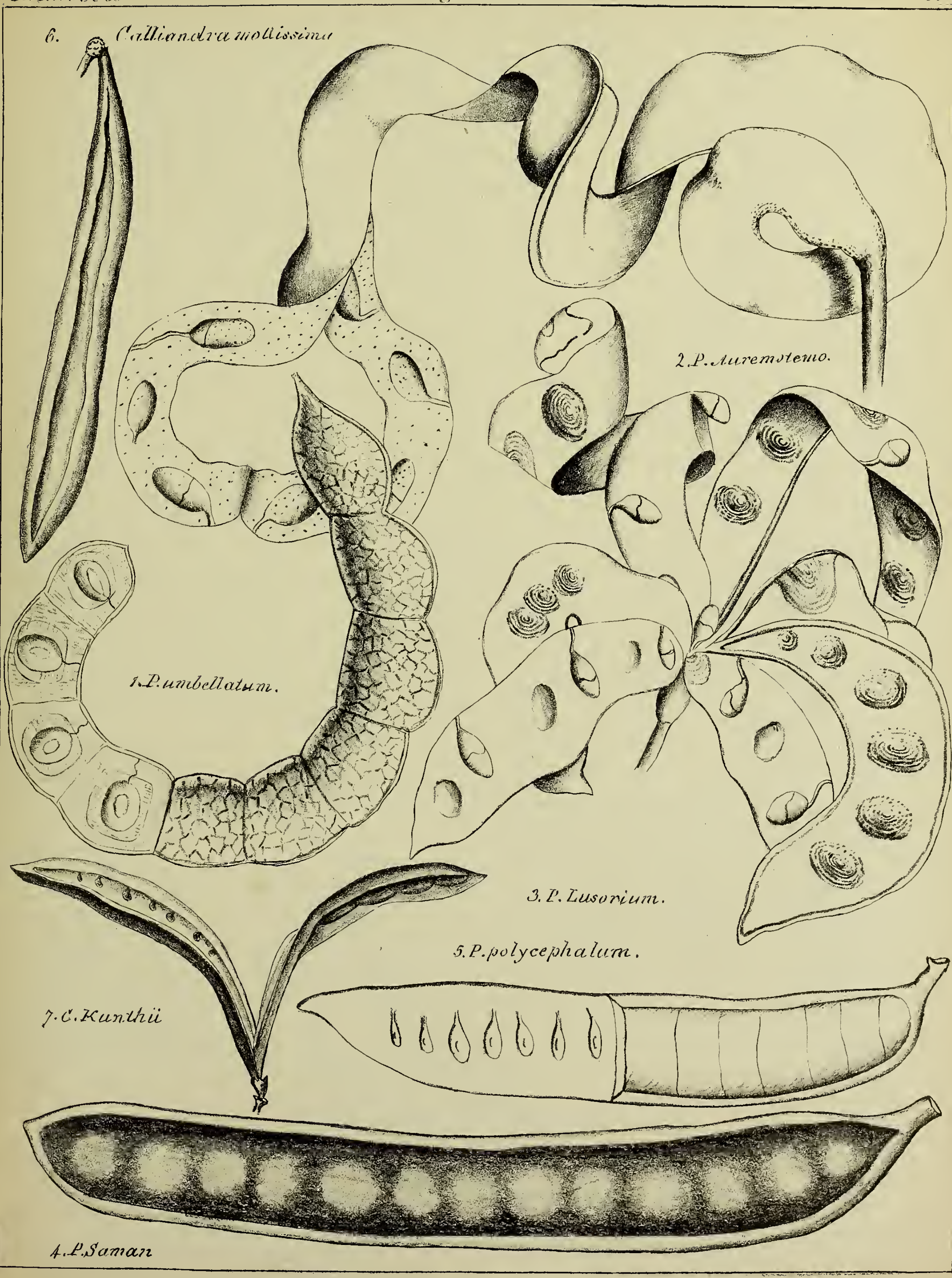
Carmichælia, doubtfully referred to *Galegeæ*, separates its valves from the margins in the same way as *Schotia* among *Cæsalpinieæ*.

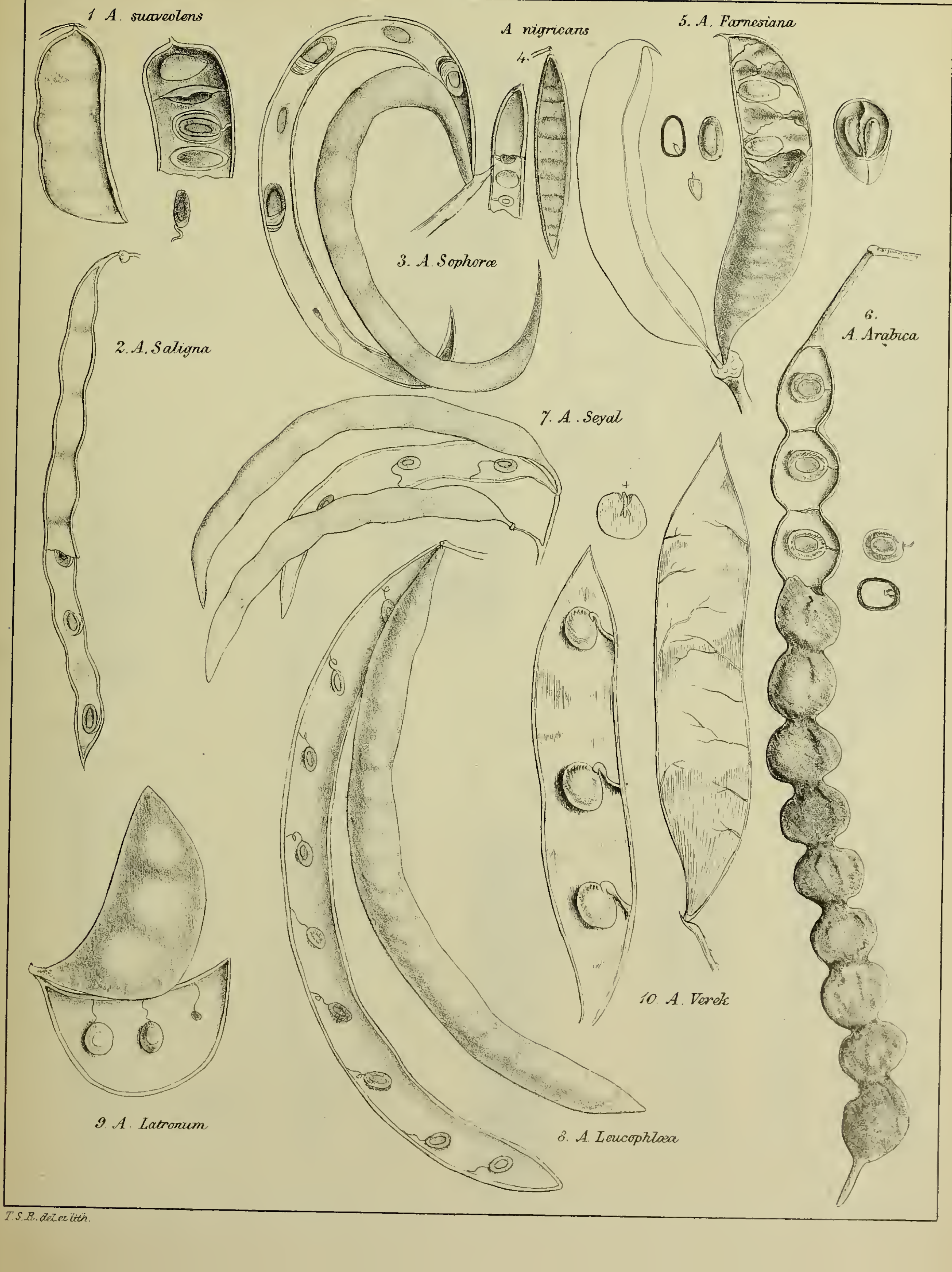
Podalyrieæ.

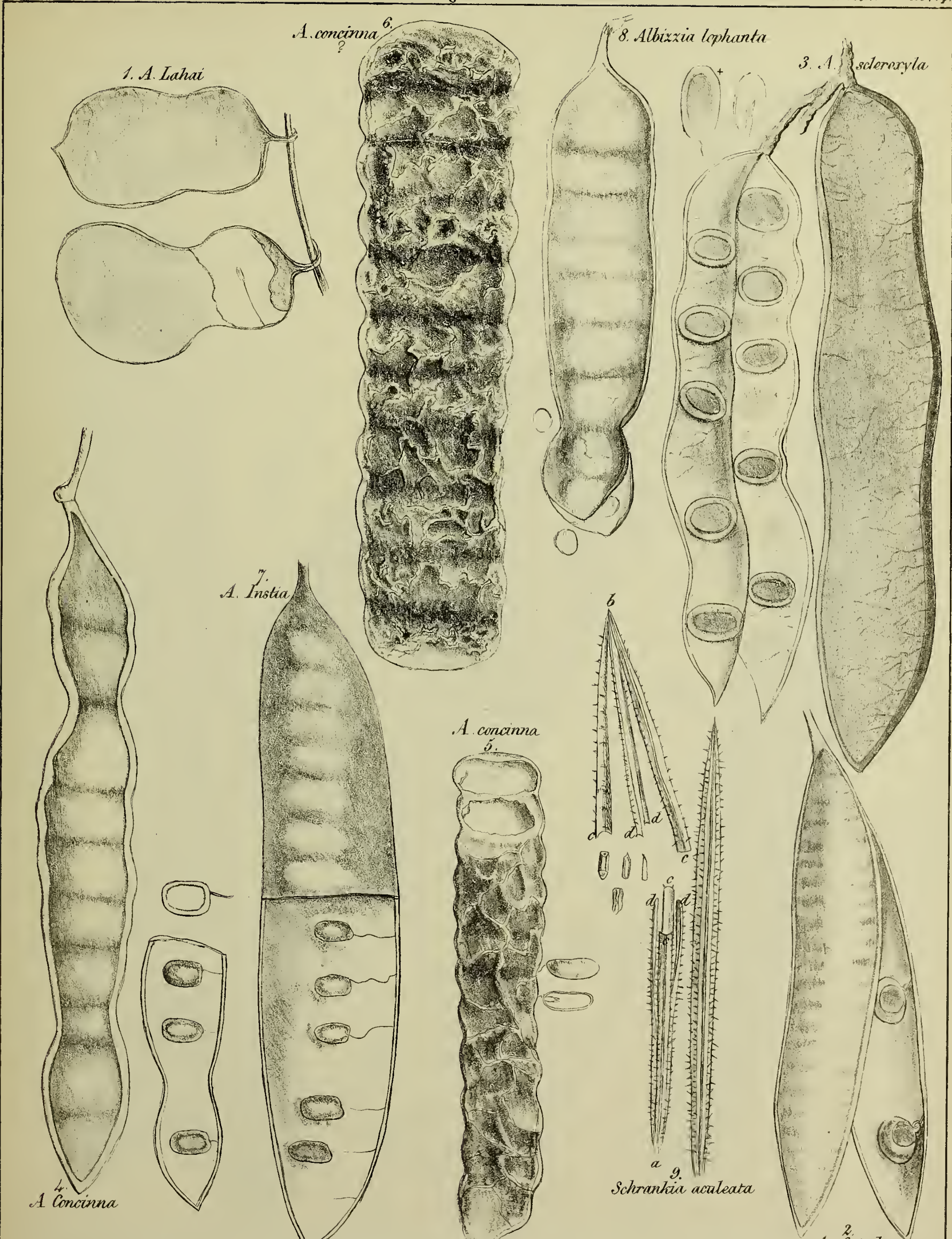
In *Podalyrieæ*, *Mirbelia* is remarkable for the introflexion of the seminiferous and carinal sutures, so as to divide the legume into two longitudinal cavities, and recalls the character of *Astragaleæ*. *Chrozema* and *Baptisia* much resemble the fruit of *Crotalaria* in appearance.



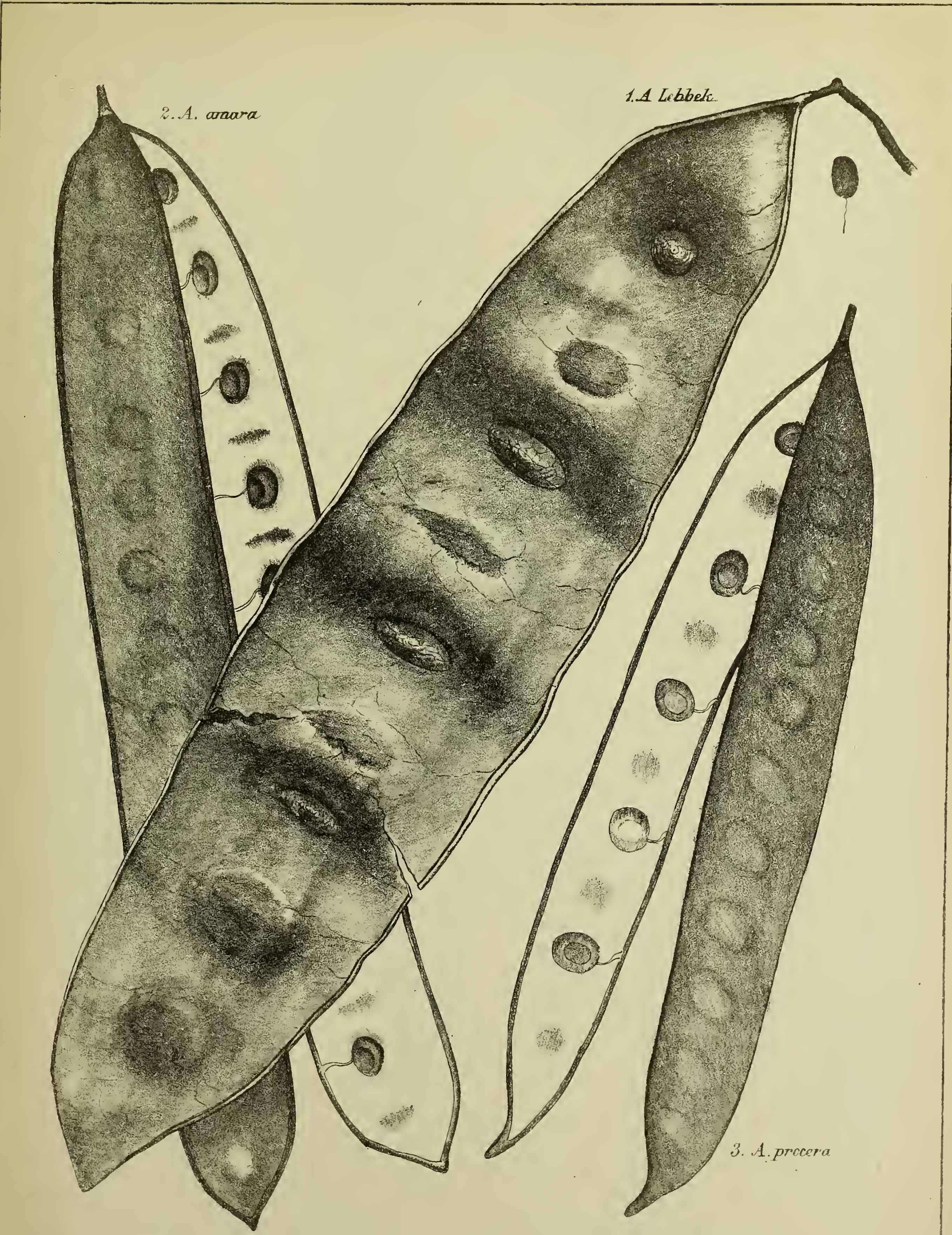
T.S.R. del. et lith.


6. Calliandra mollissima
1. P. umbellatum.
2. P. Auremotemo.
3. P. Lusorium.
5. P. polycephalum.
7. C. Kunthii
4. P. Saman

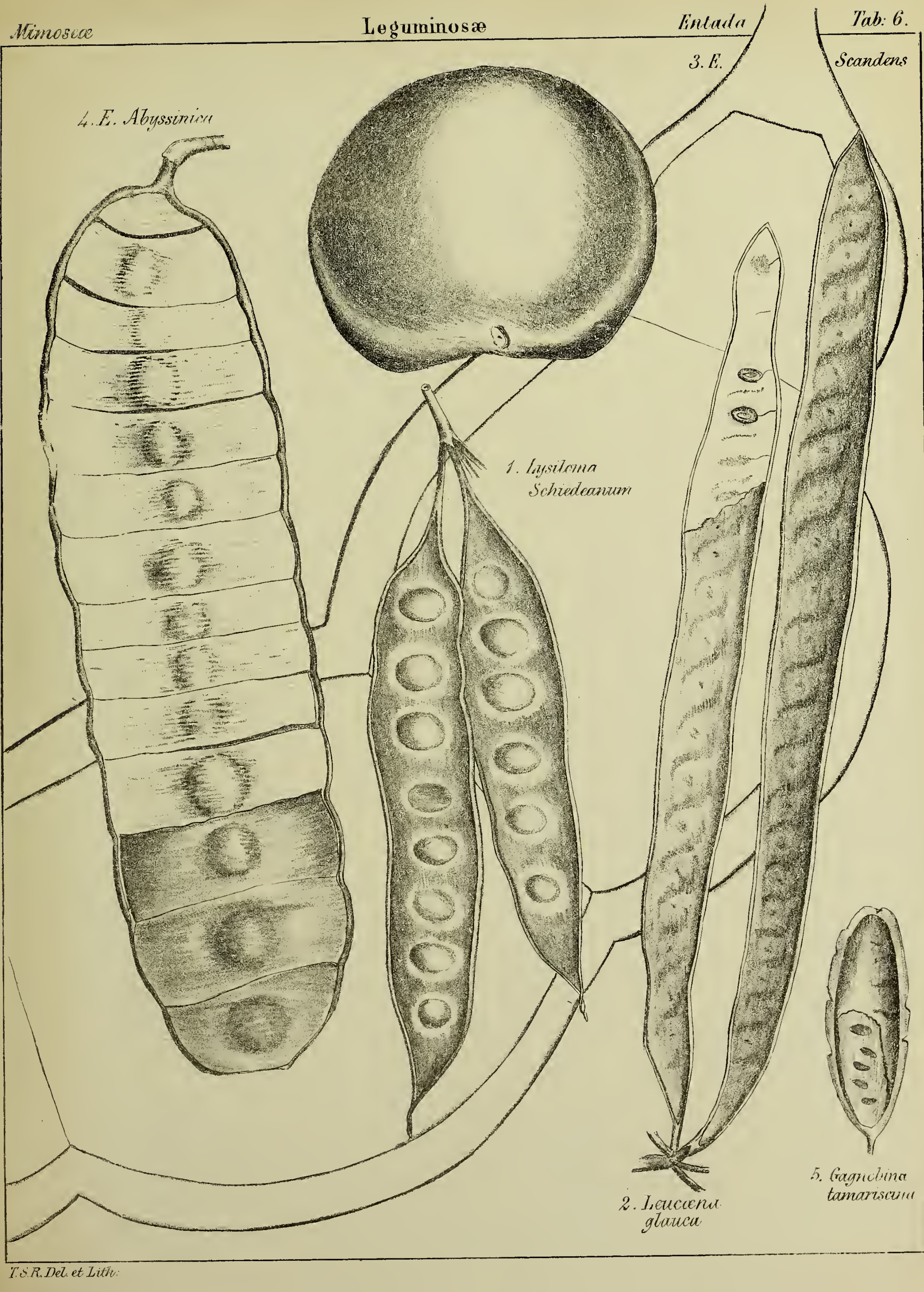

1. A. suaveolens
A. nigricans
4.
5. A. Farnesiana
3. A. Sophoræ
2. A. Saligna
6. A. Arabica
7. A. Seyal
10. A. Verek
9. A. Latronum
8. A. Leucophlœa
T.S.R. del. et lith.



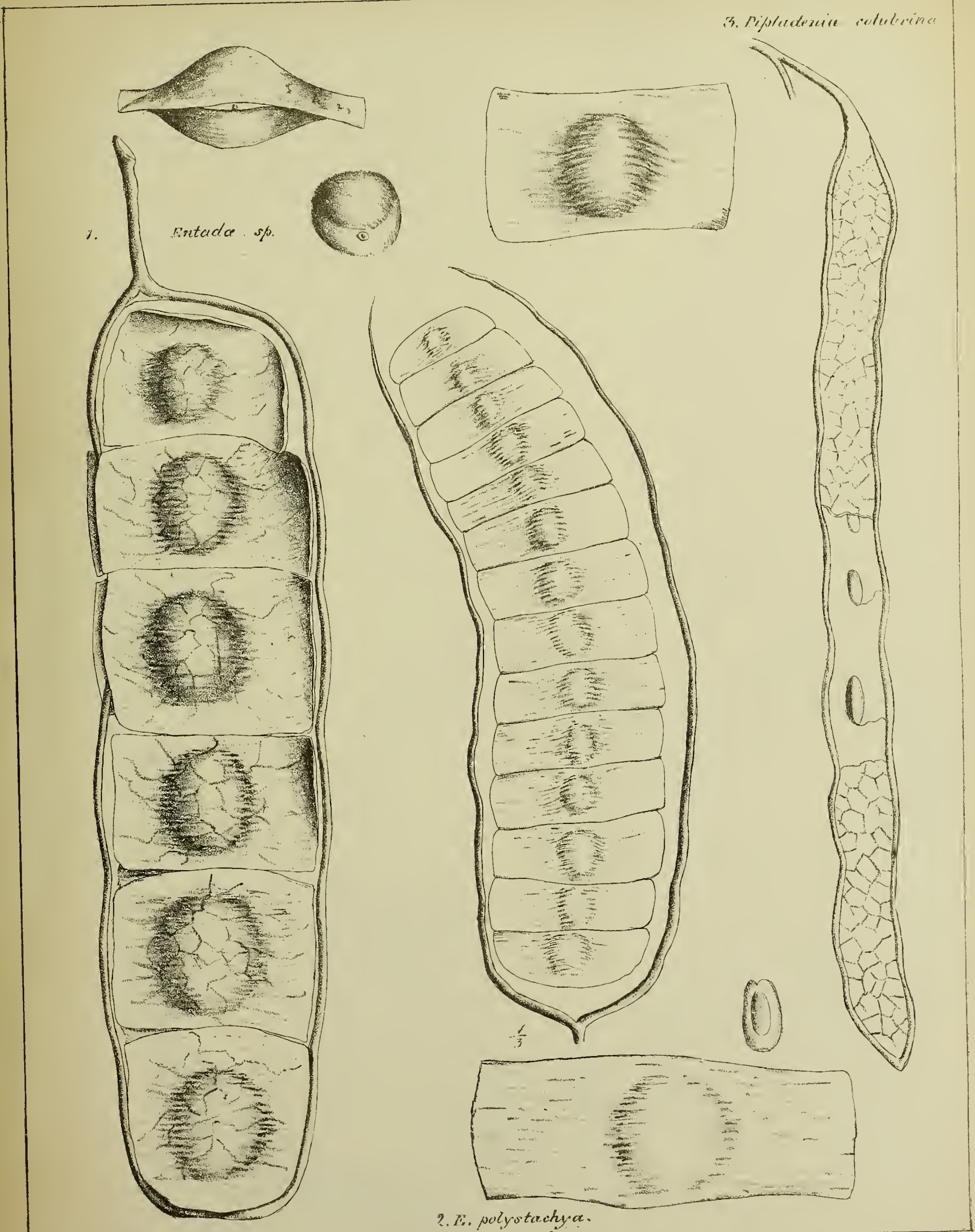
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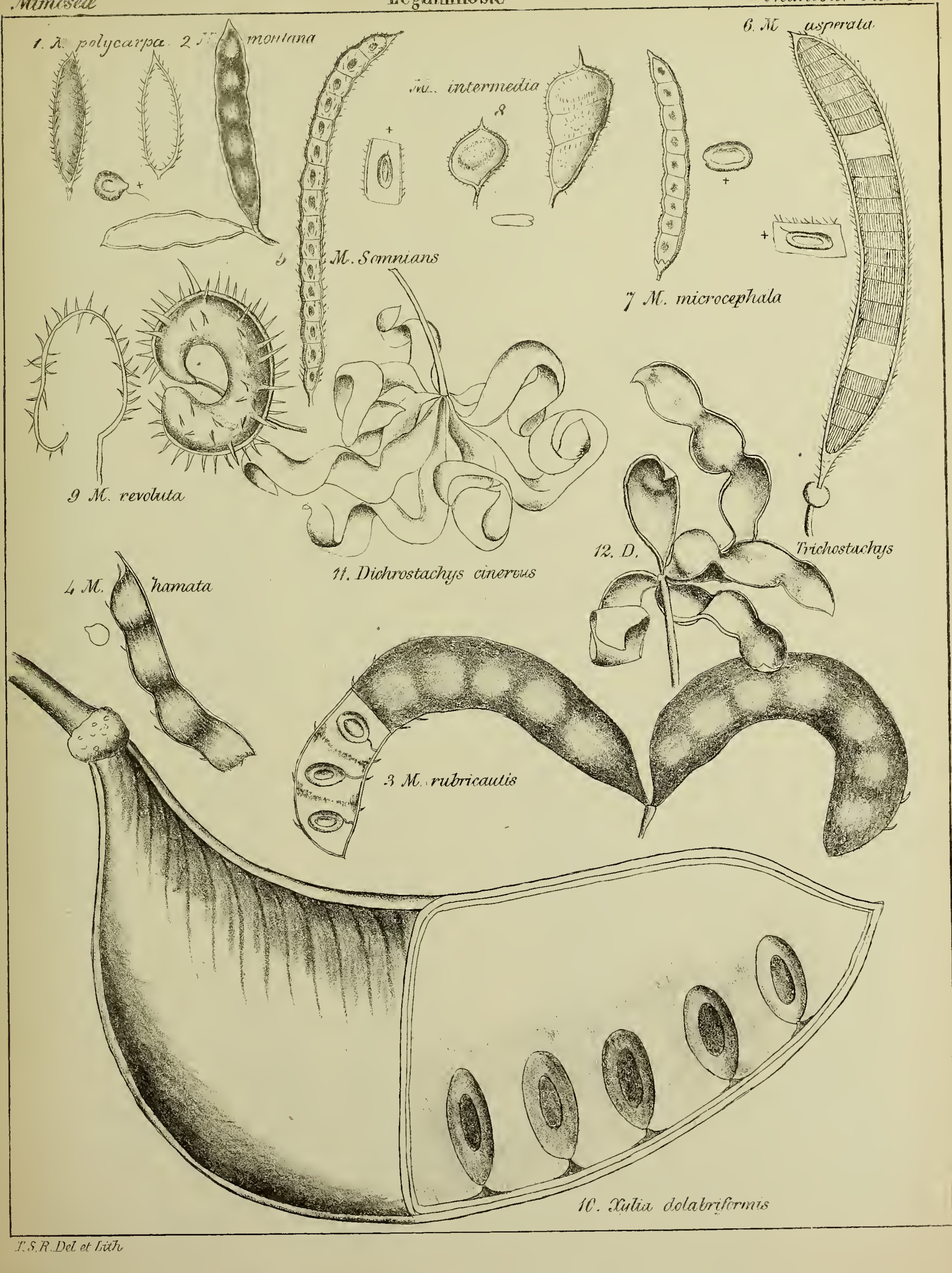


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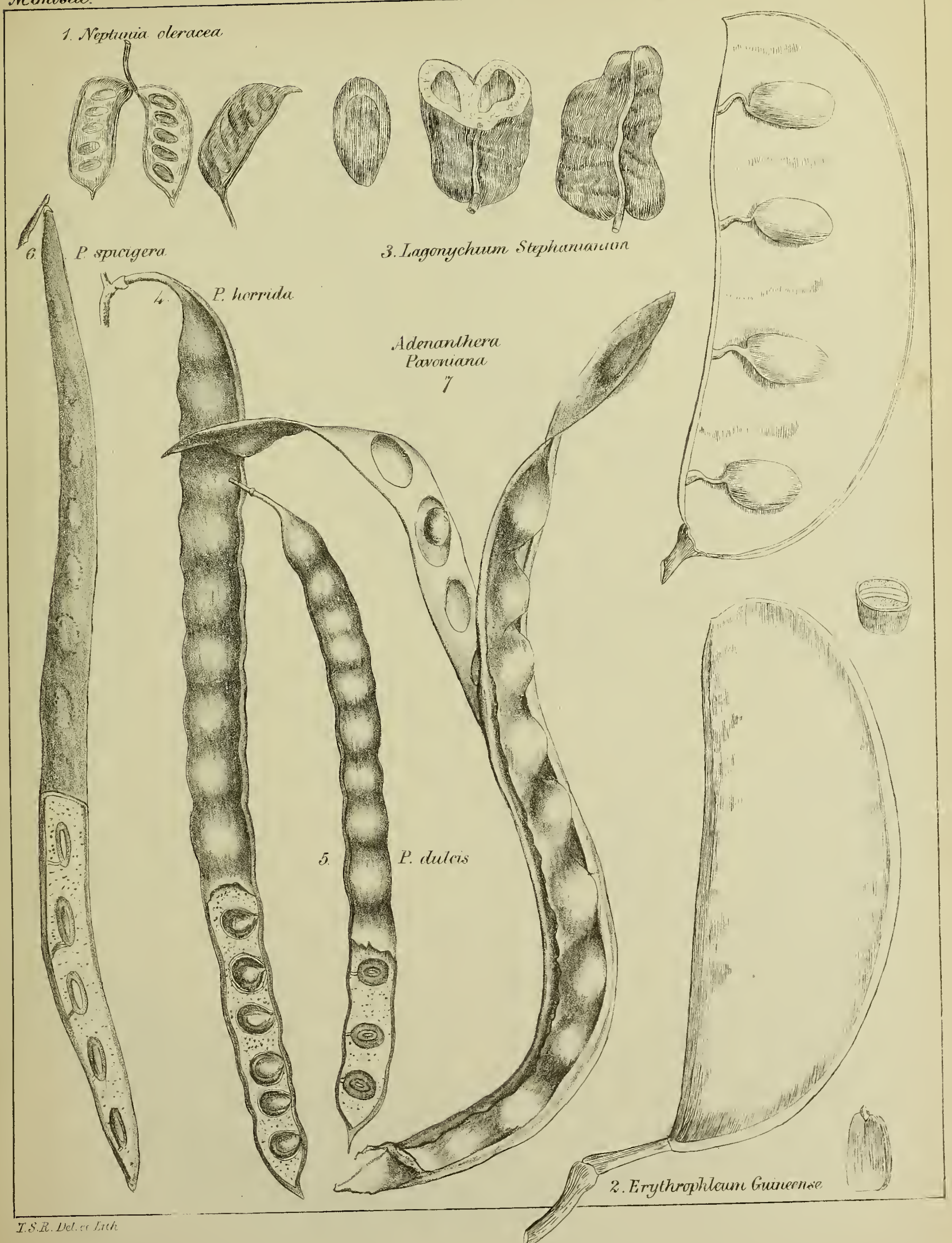


2. E. polystachya.

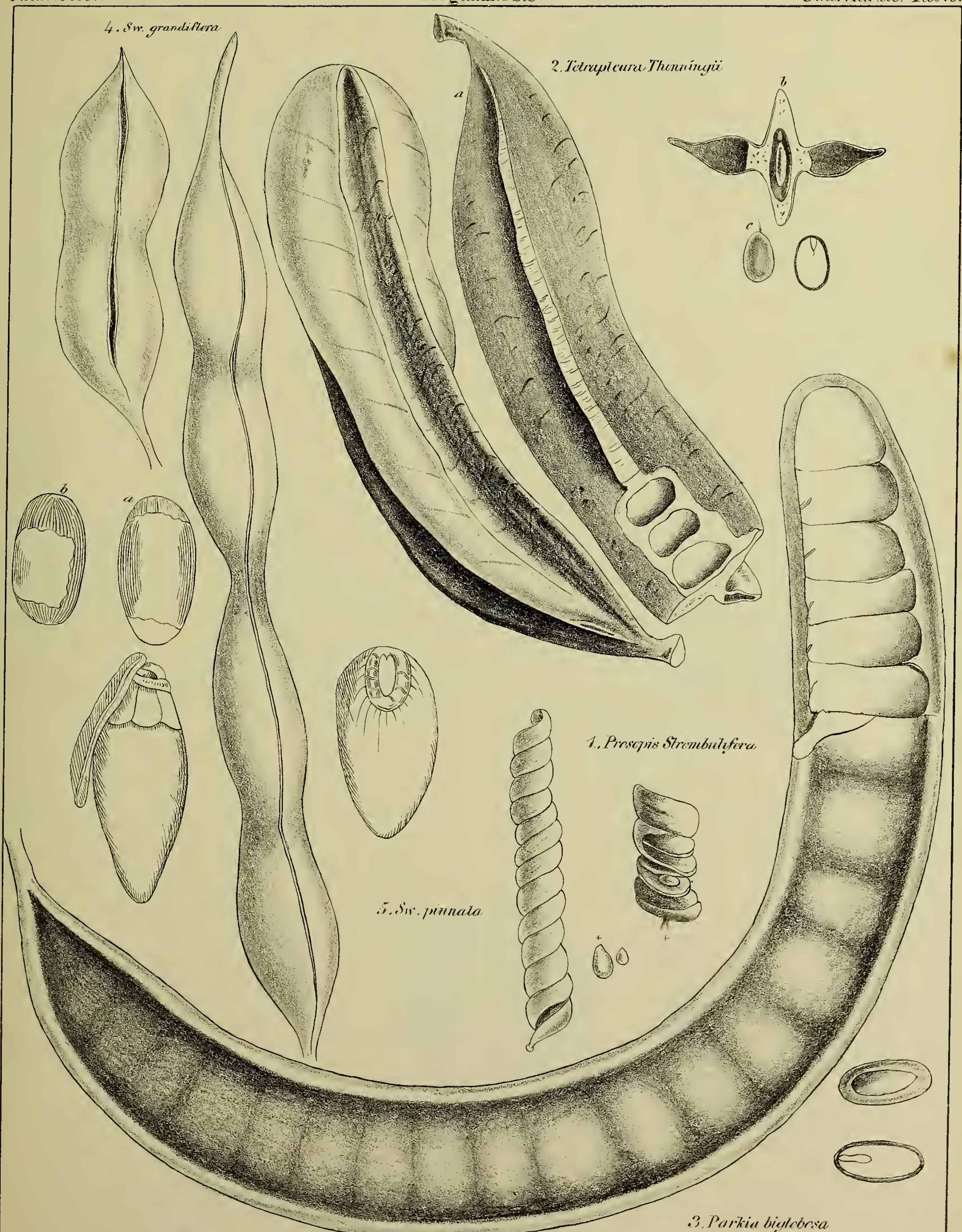
J. P. K. del. et lith.



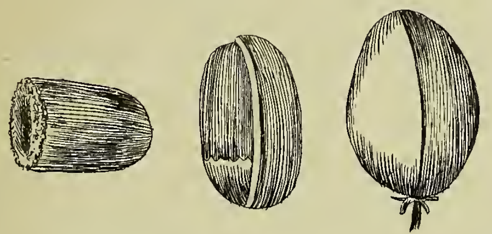
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T.S.R. Del. et Lith.



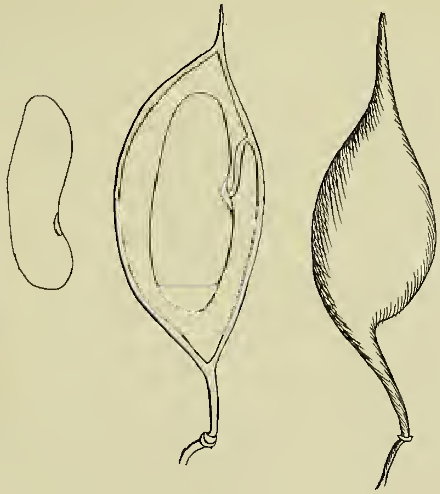
T.S.B. del. et lith.



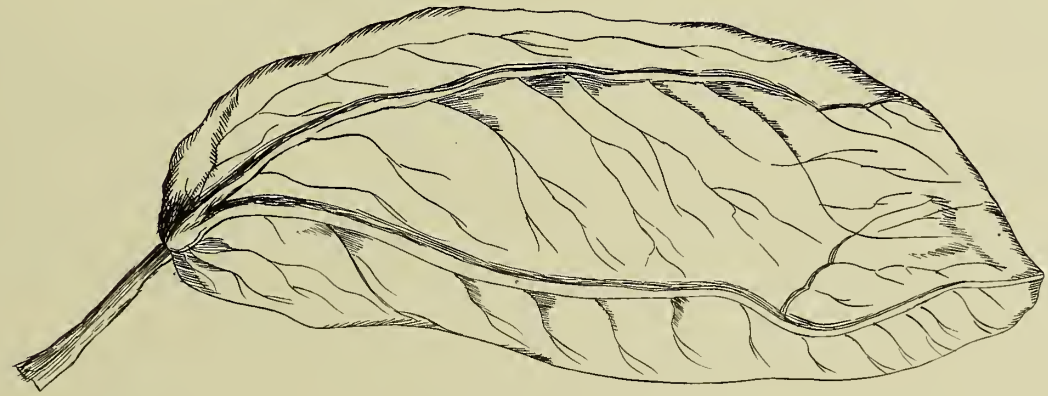
3. Sw. alata



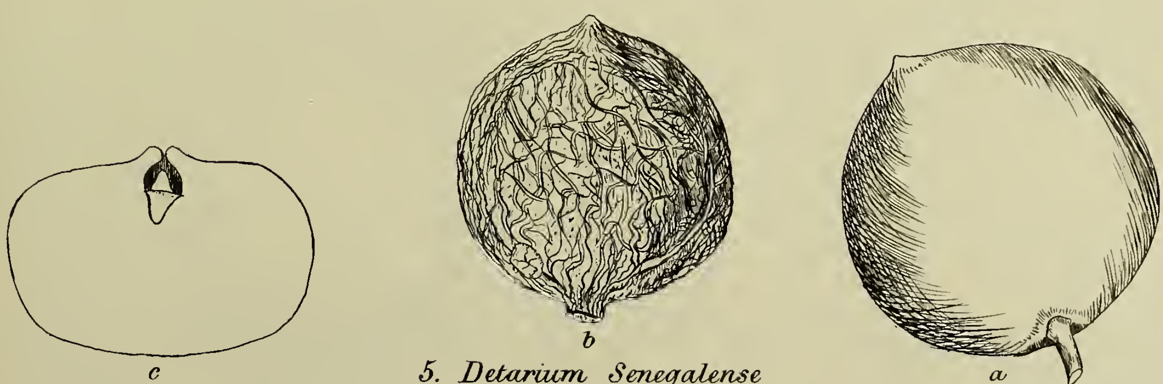
2. Sw. triphylla



1. Sw. ochnacea



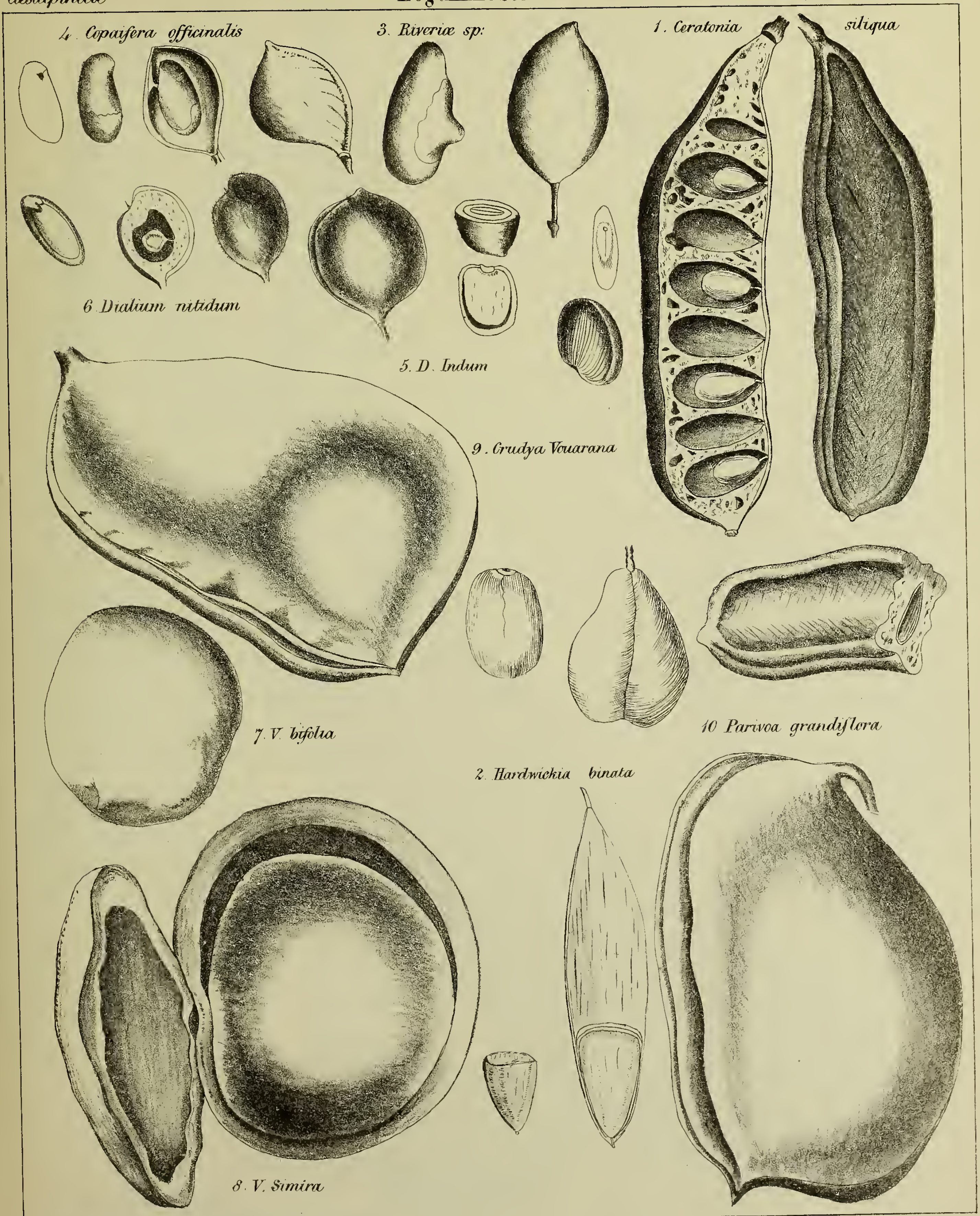
4. Martiusia parvifolia



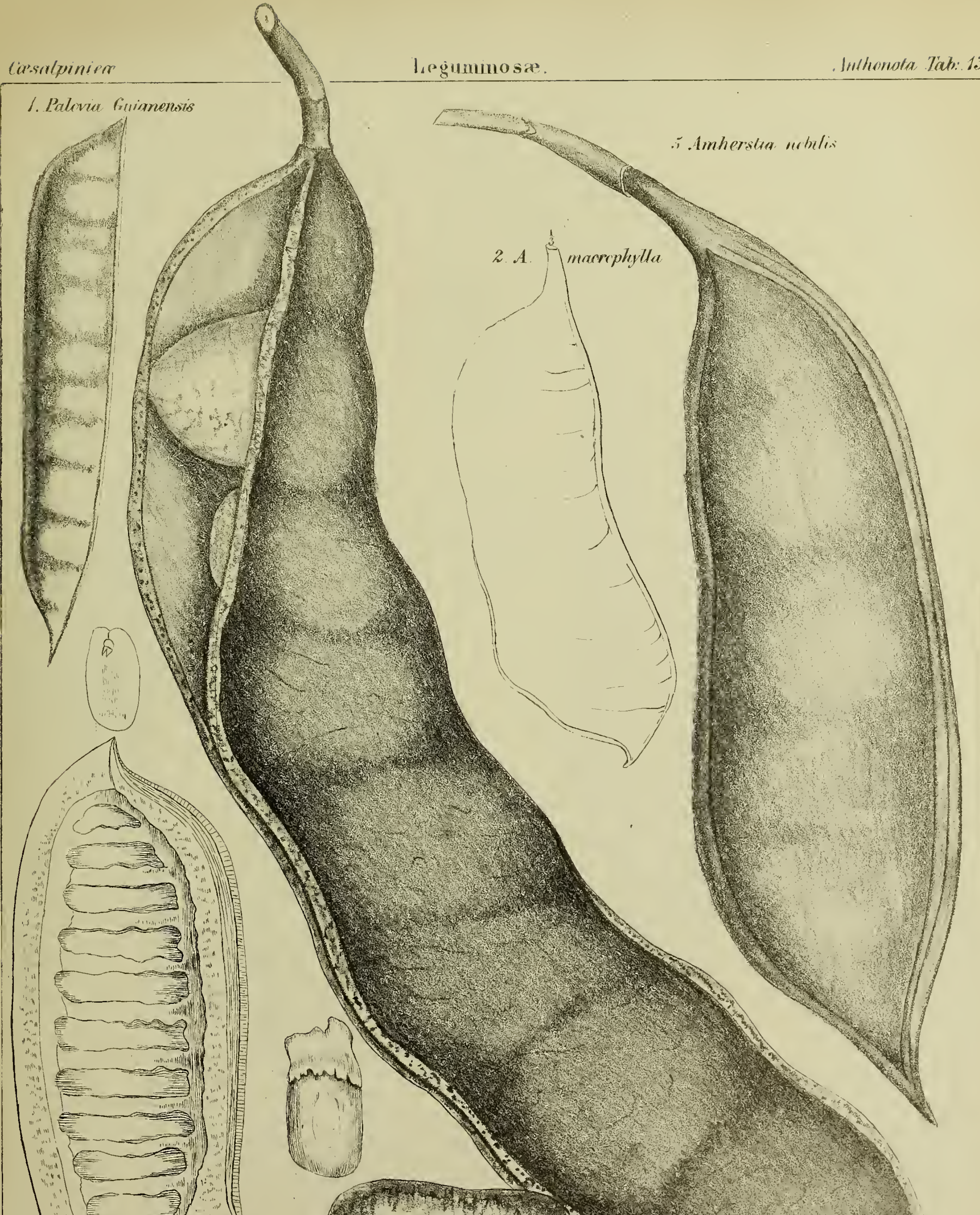
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5. Detarium Senegalense

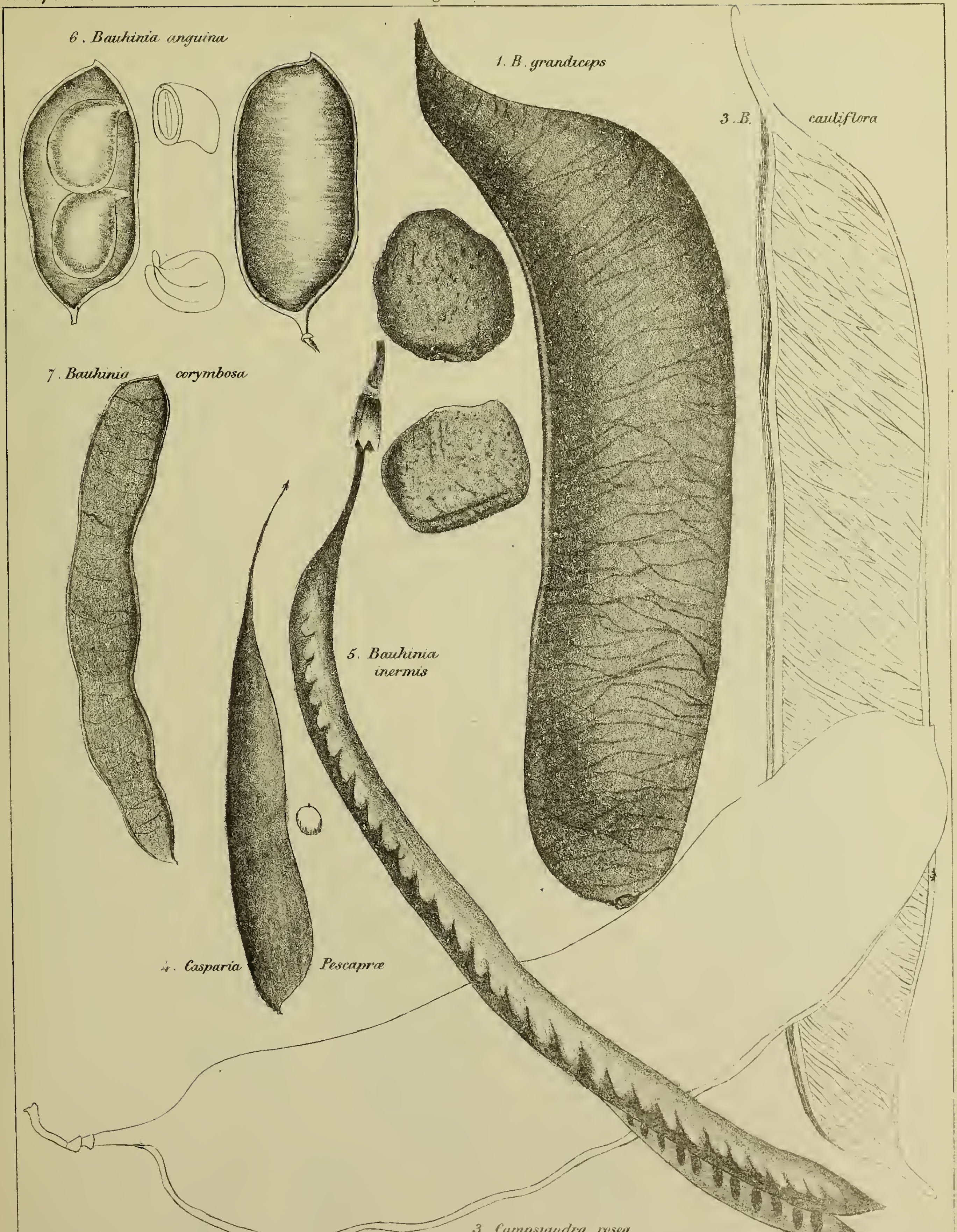
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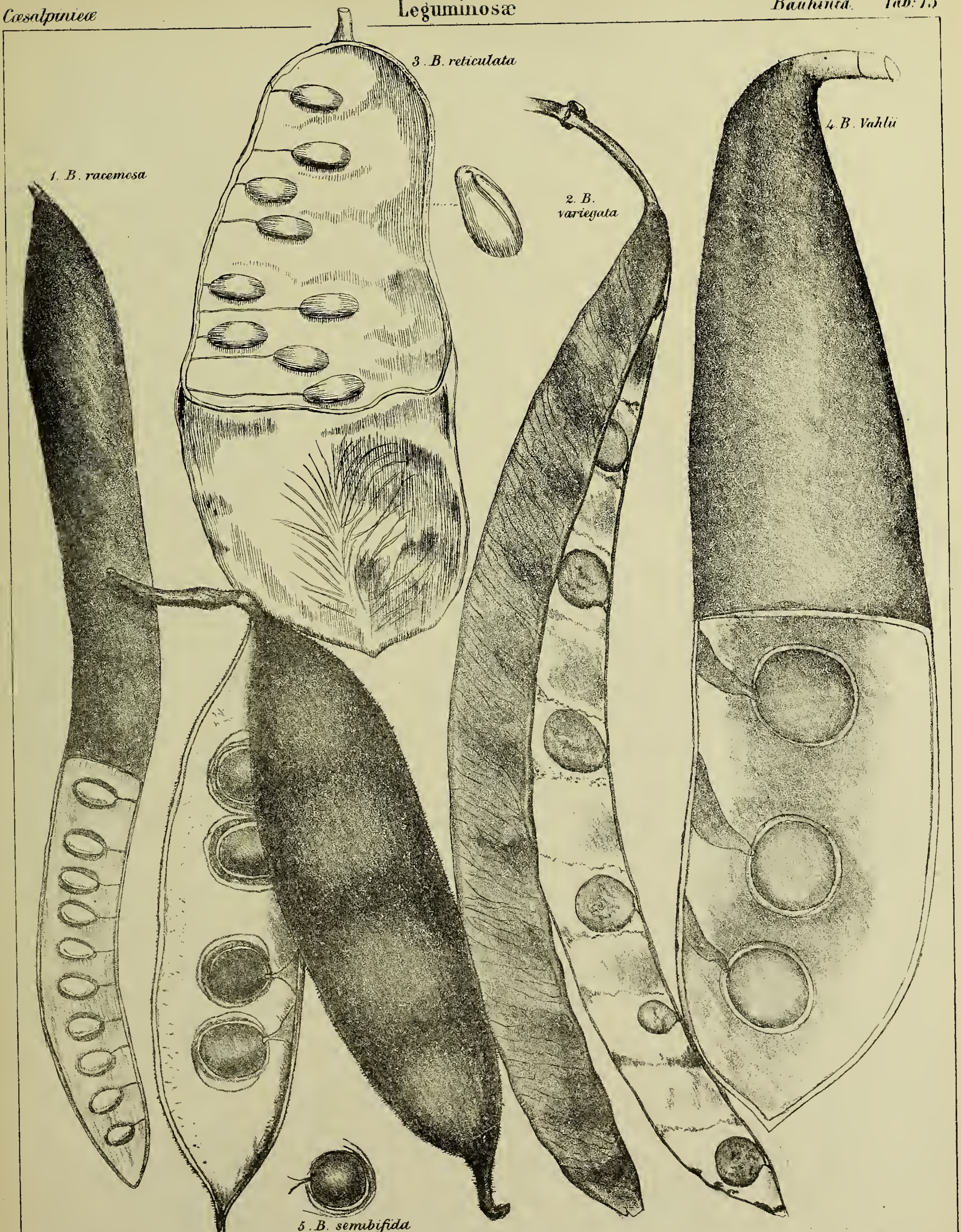
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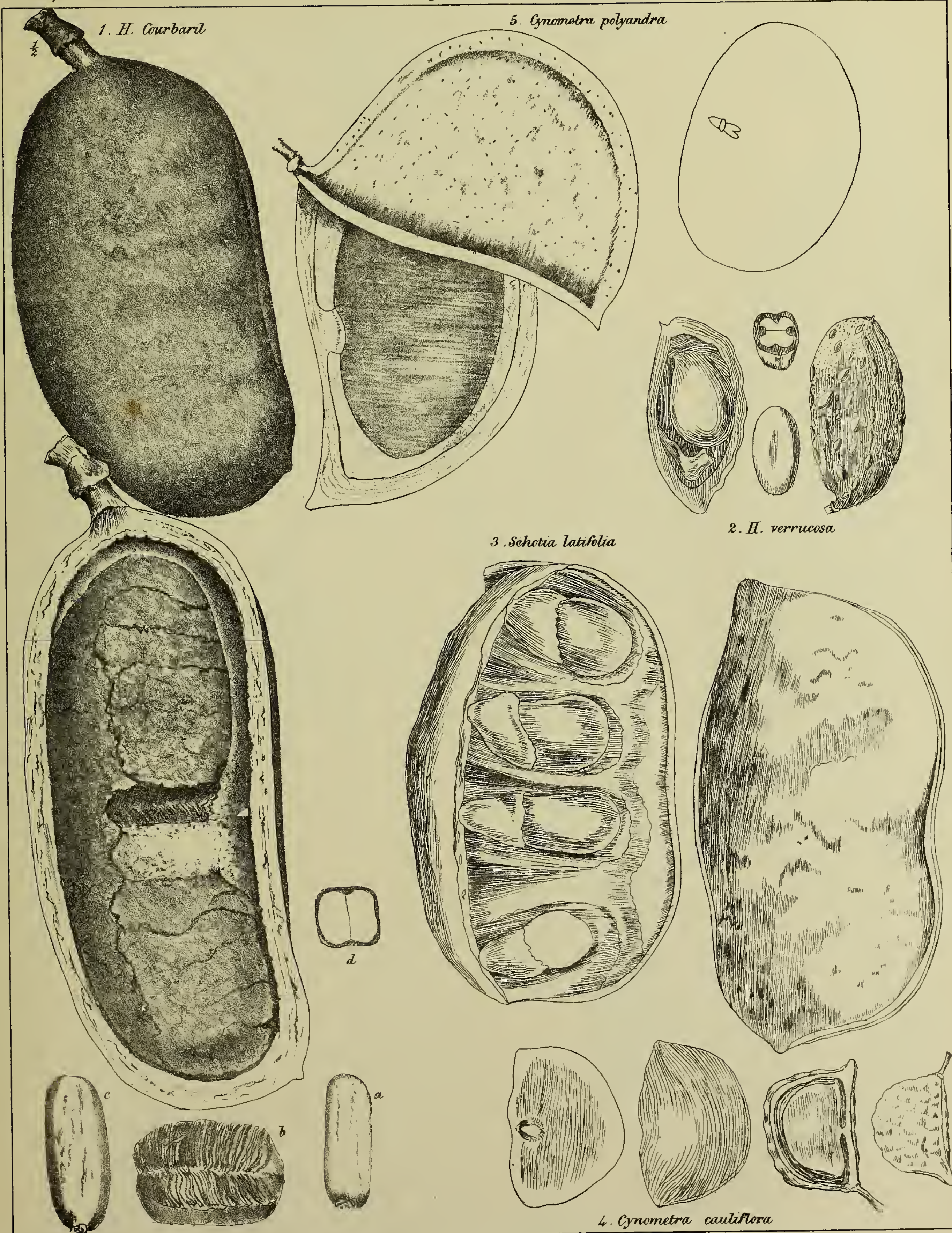
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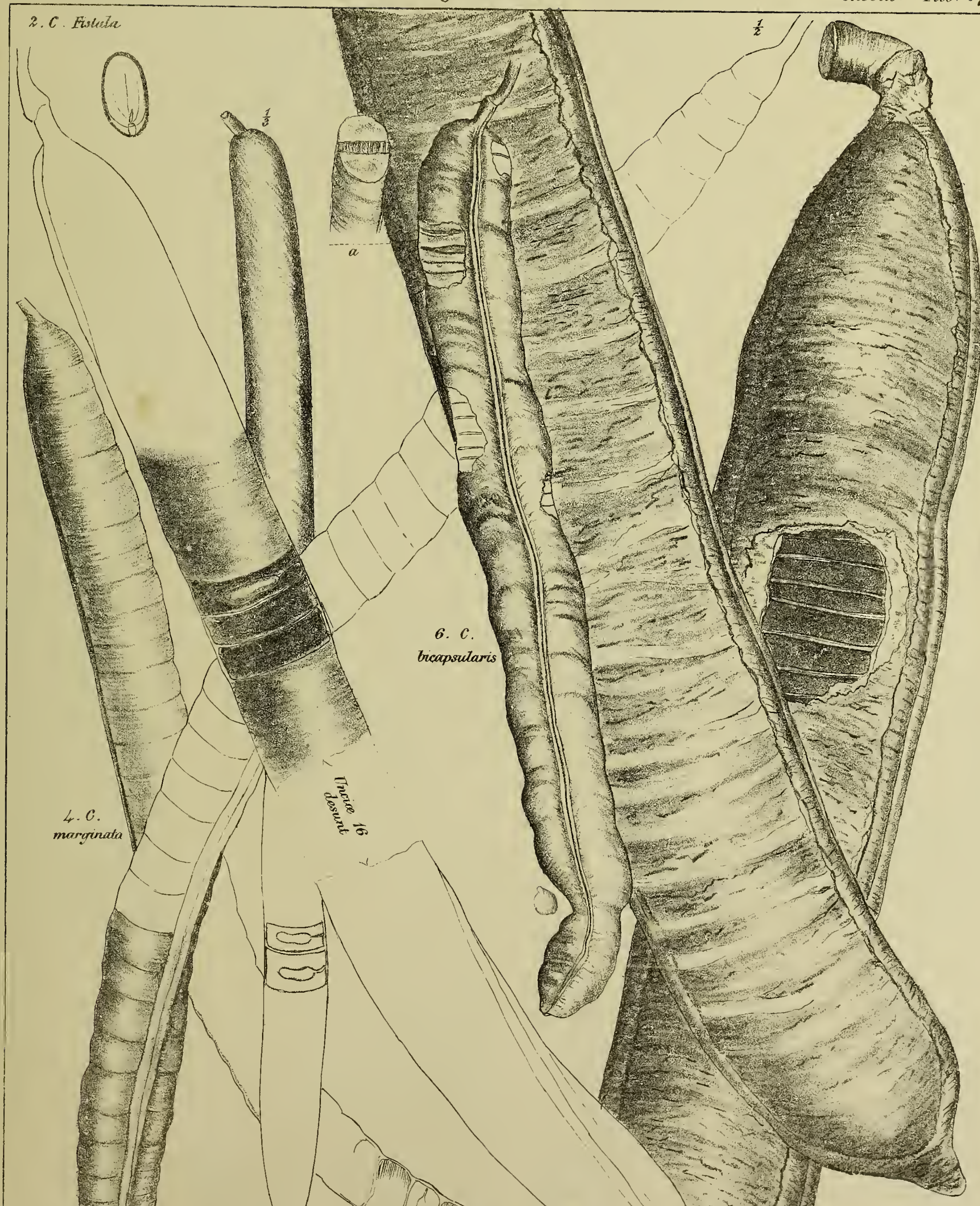
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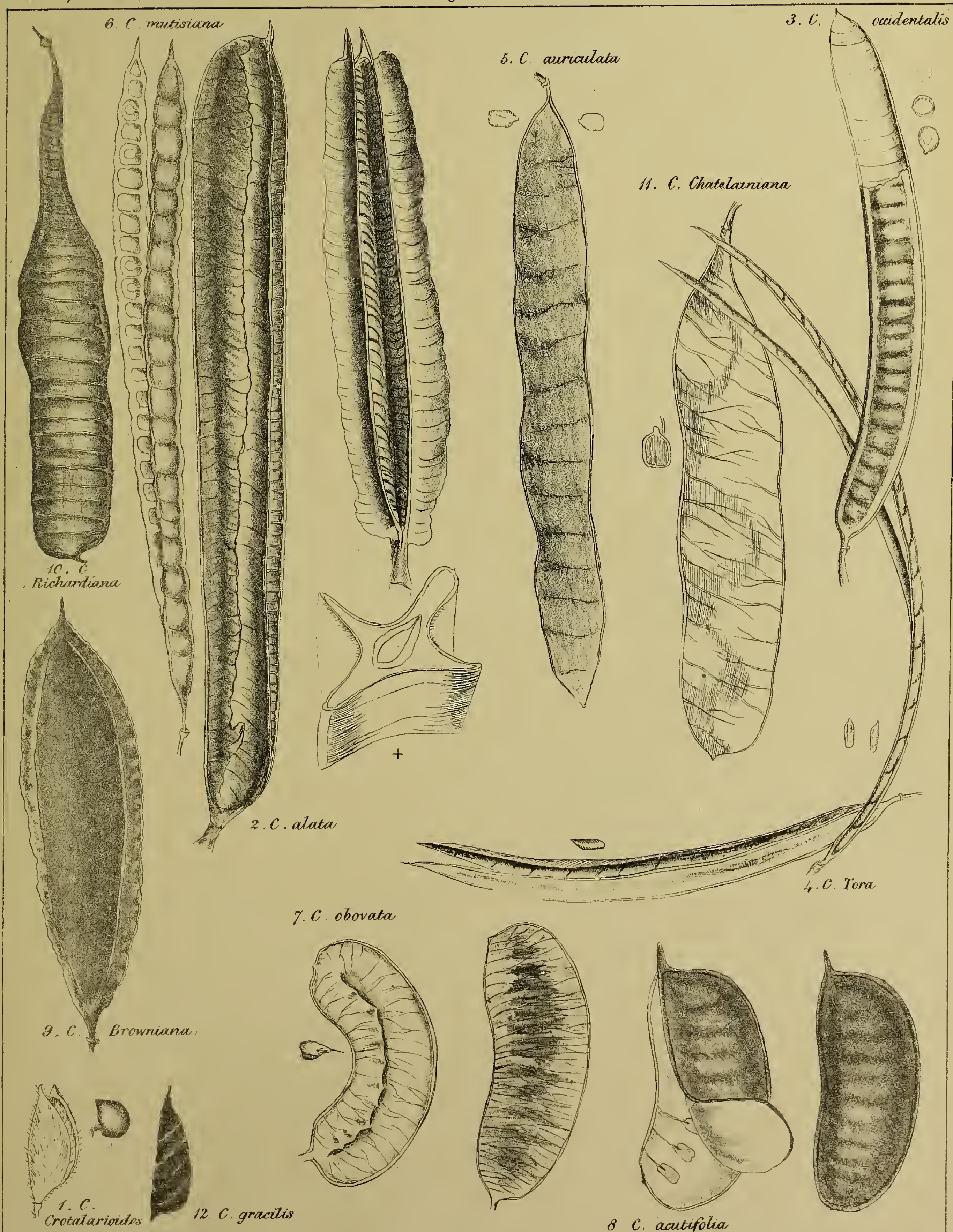
I. S. R, Del et Lith



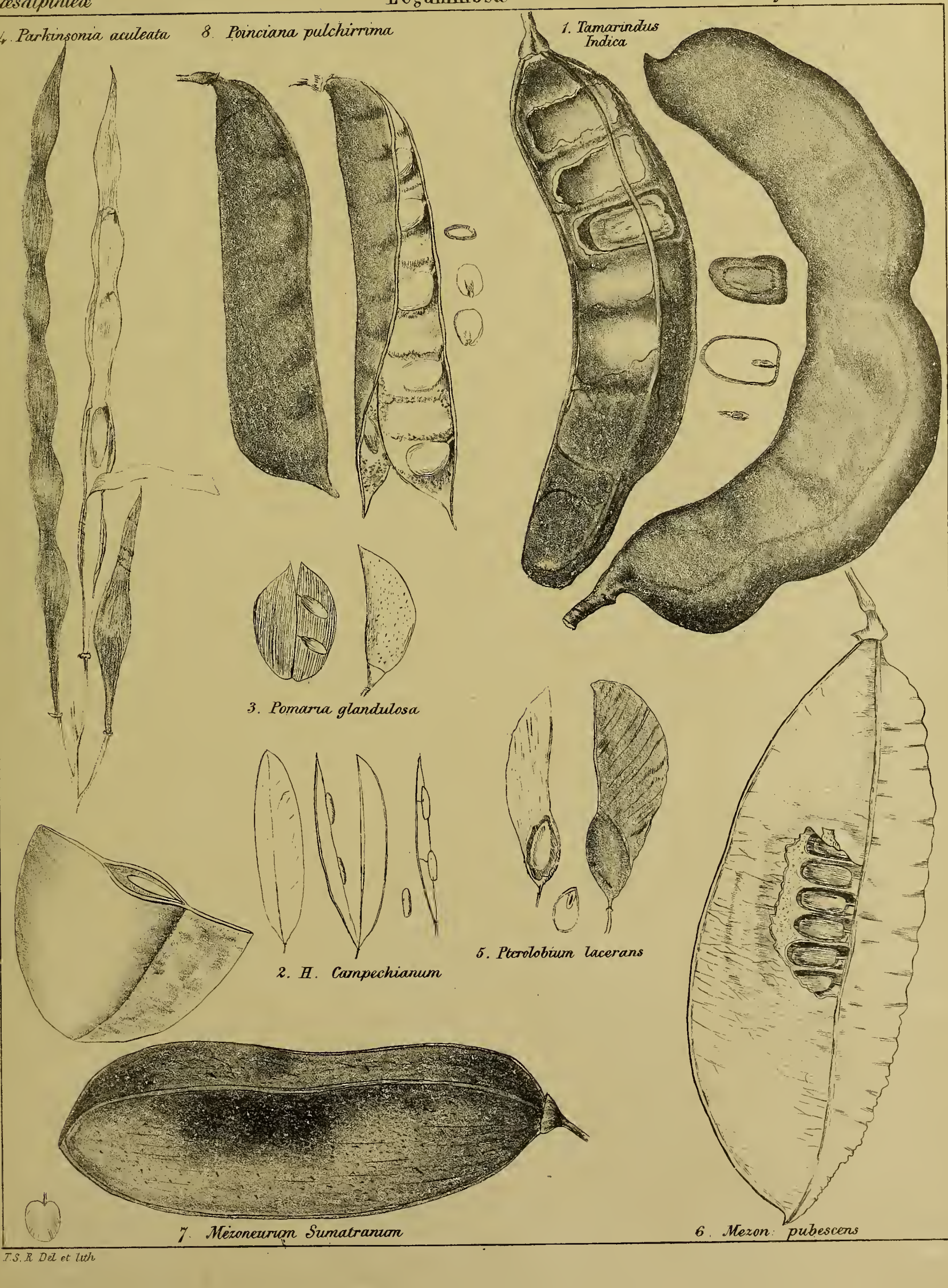
T.S.R. Del. et Lith.



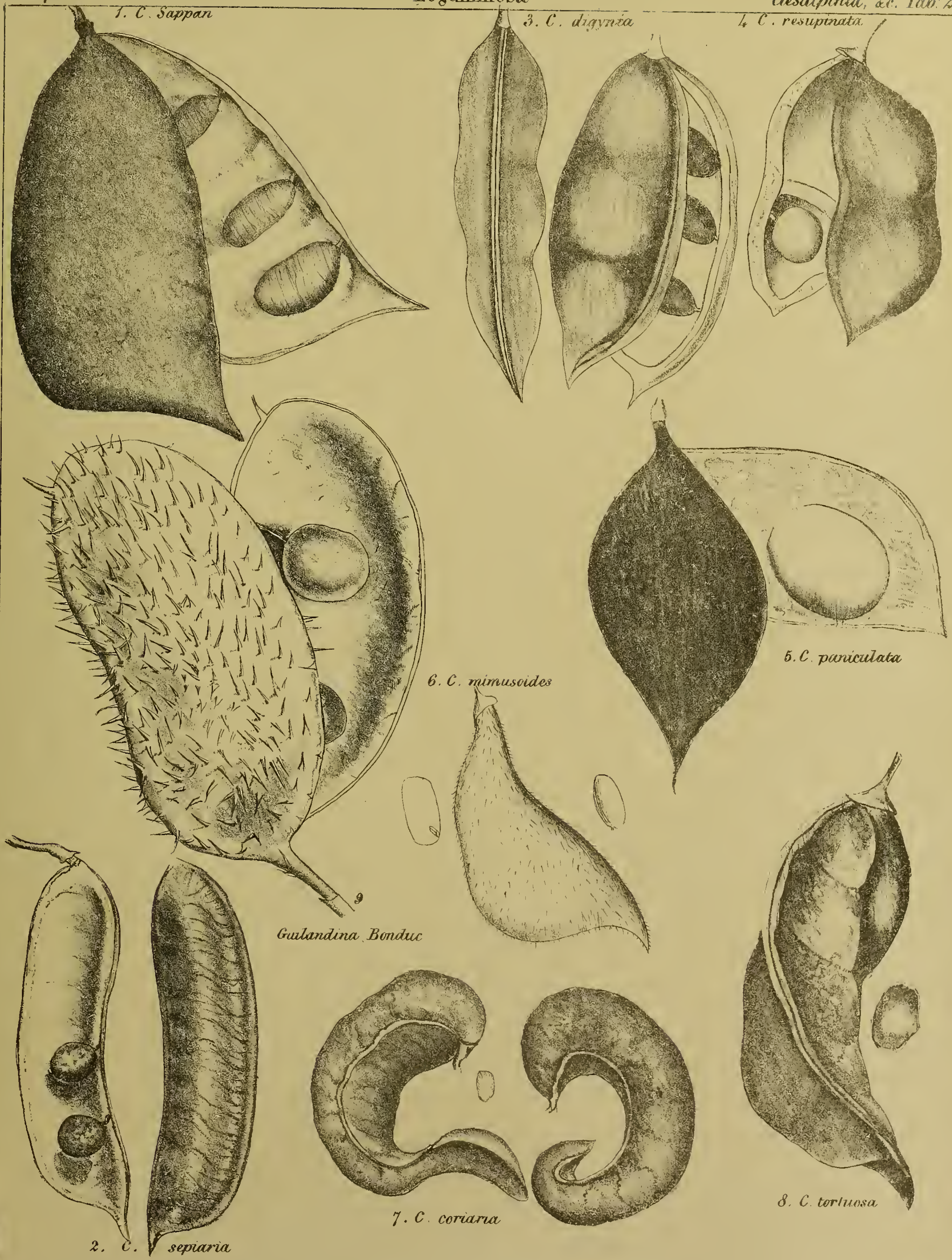
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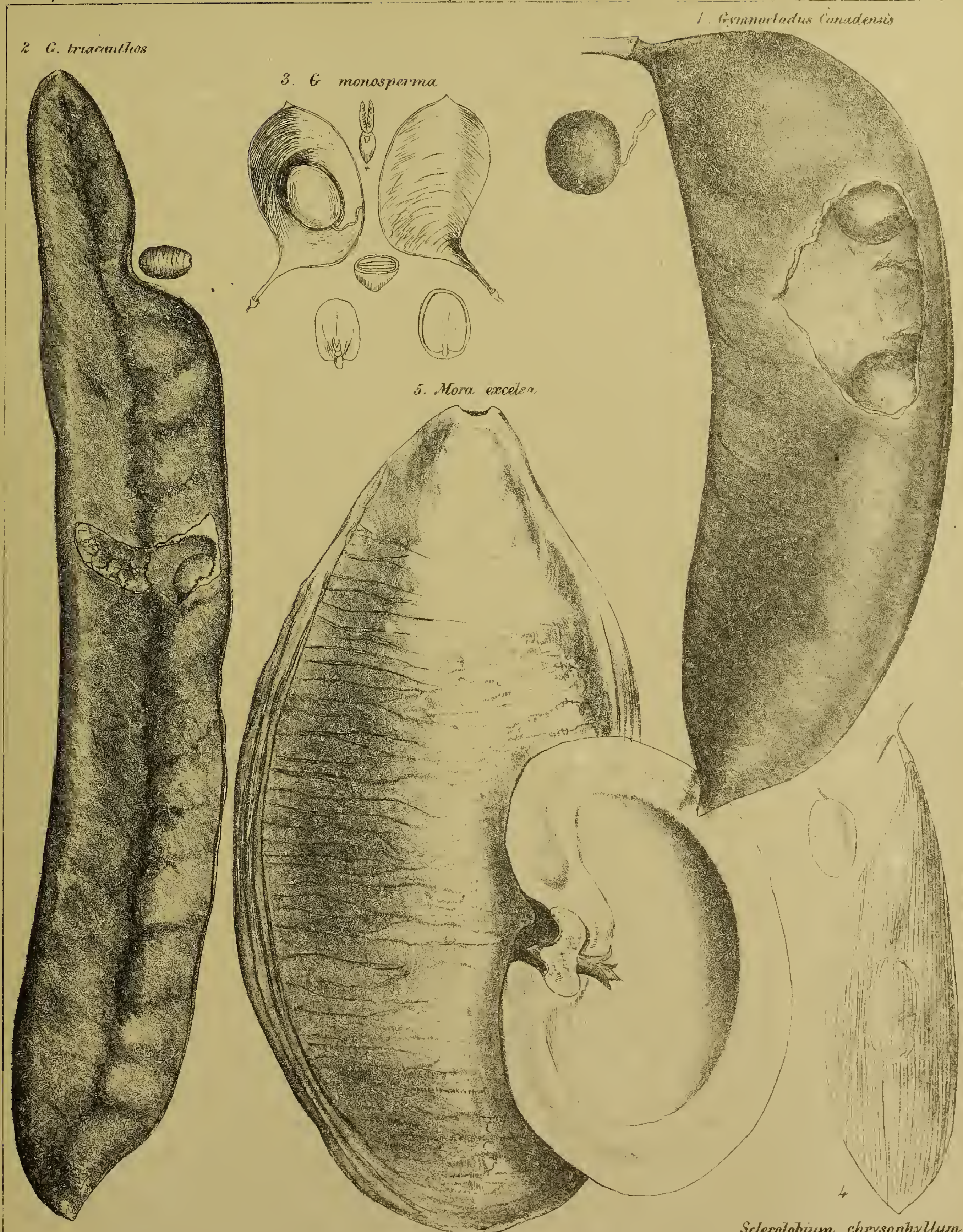
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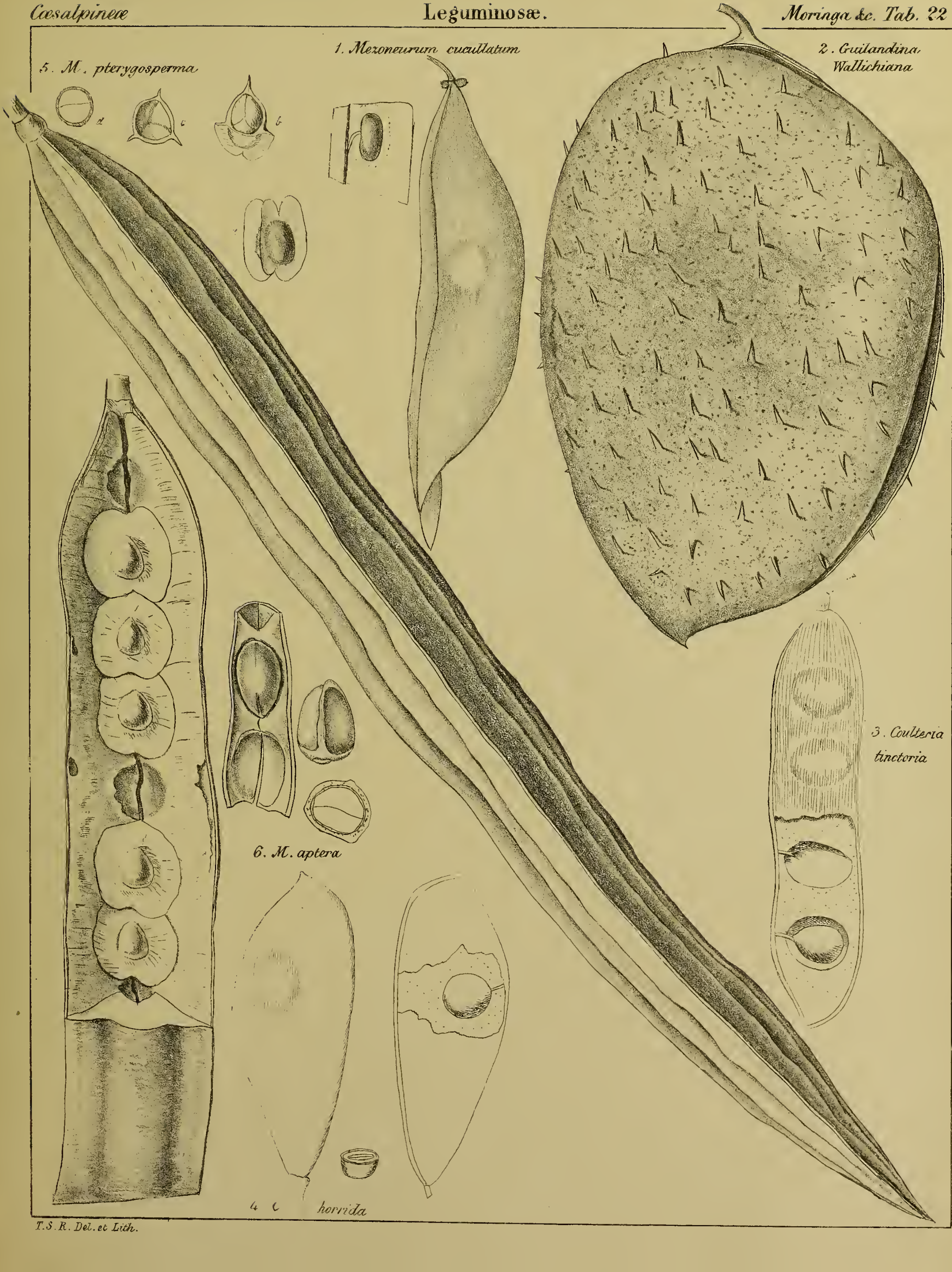
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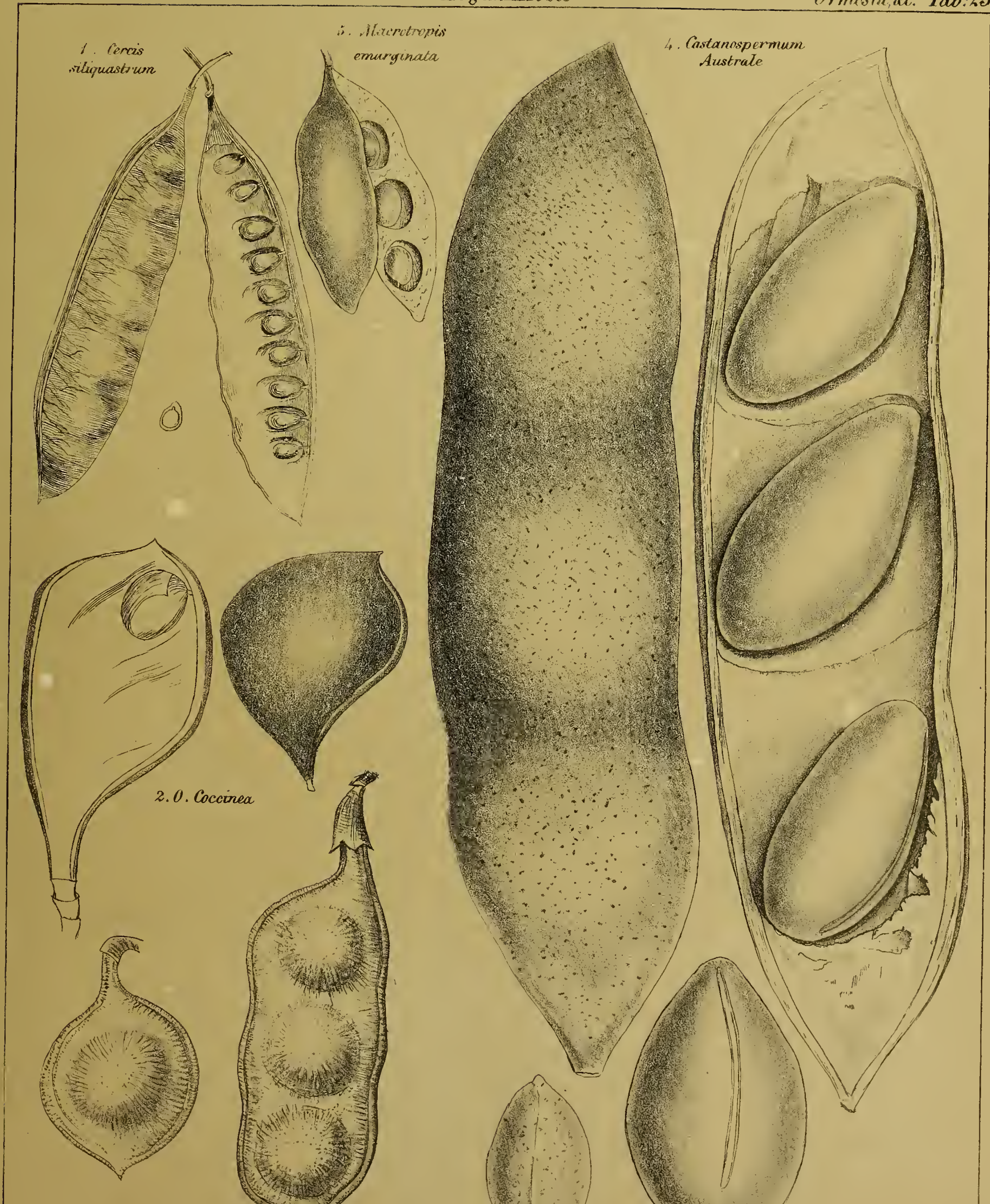
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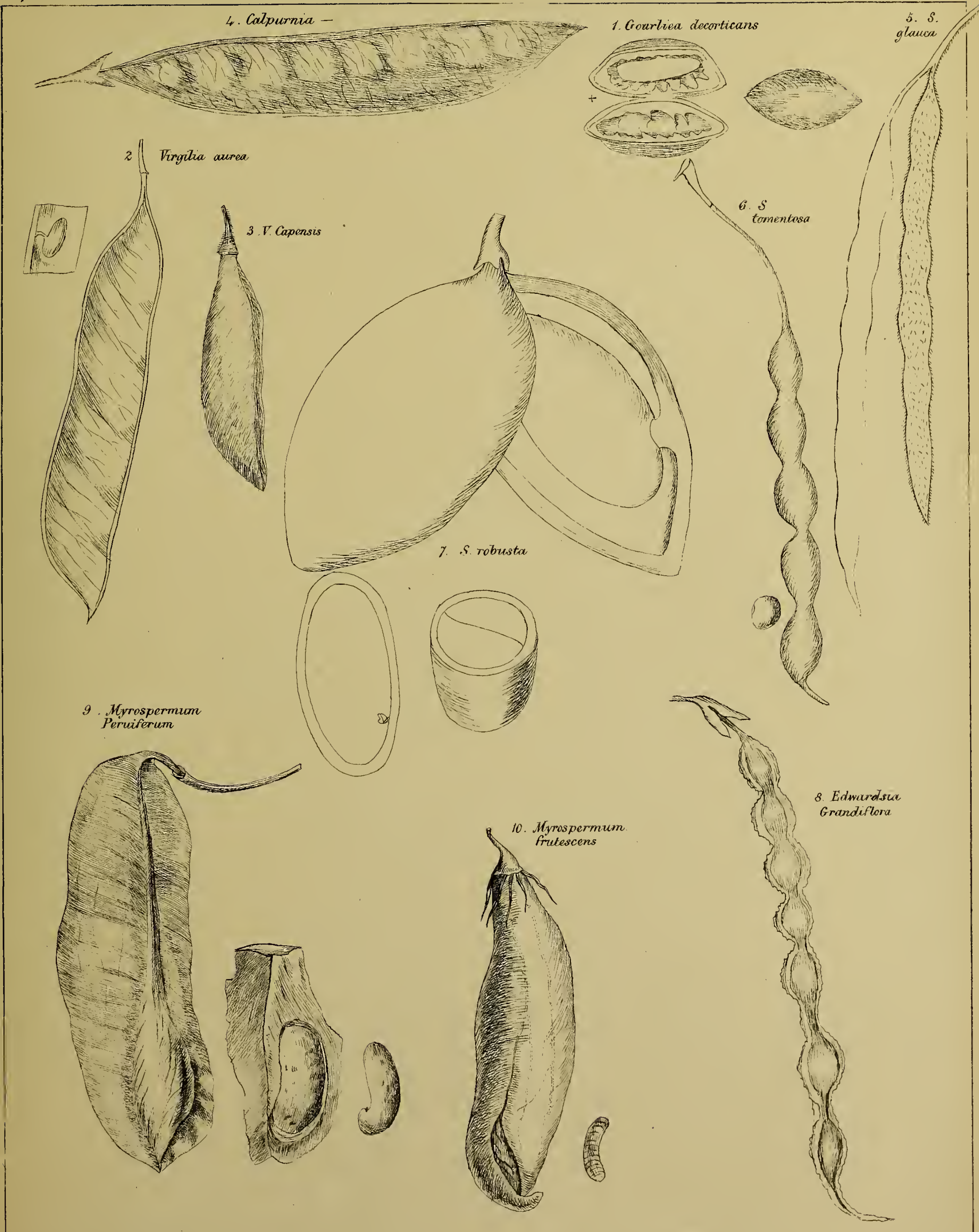
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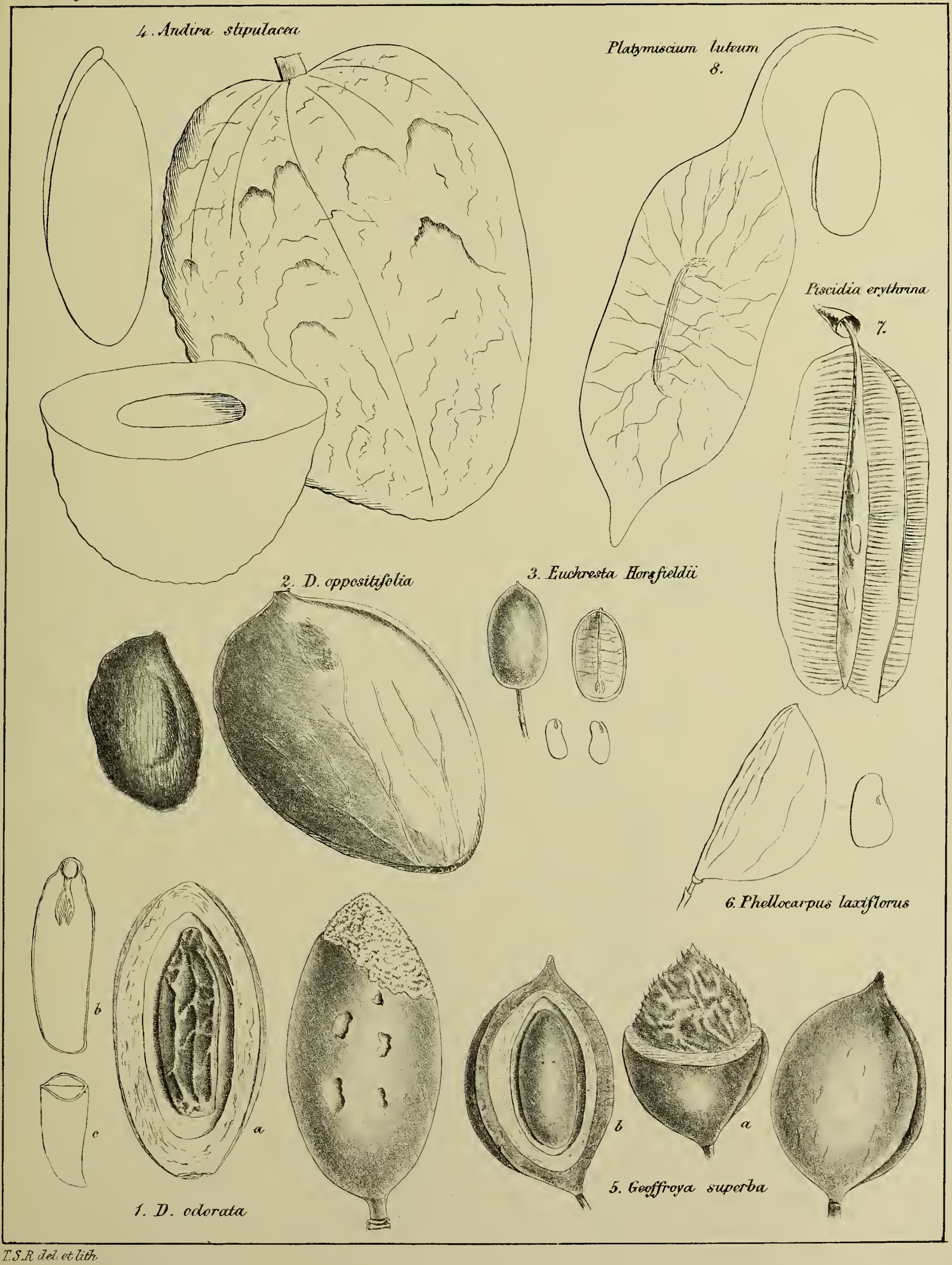
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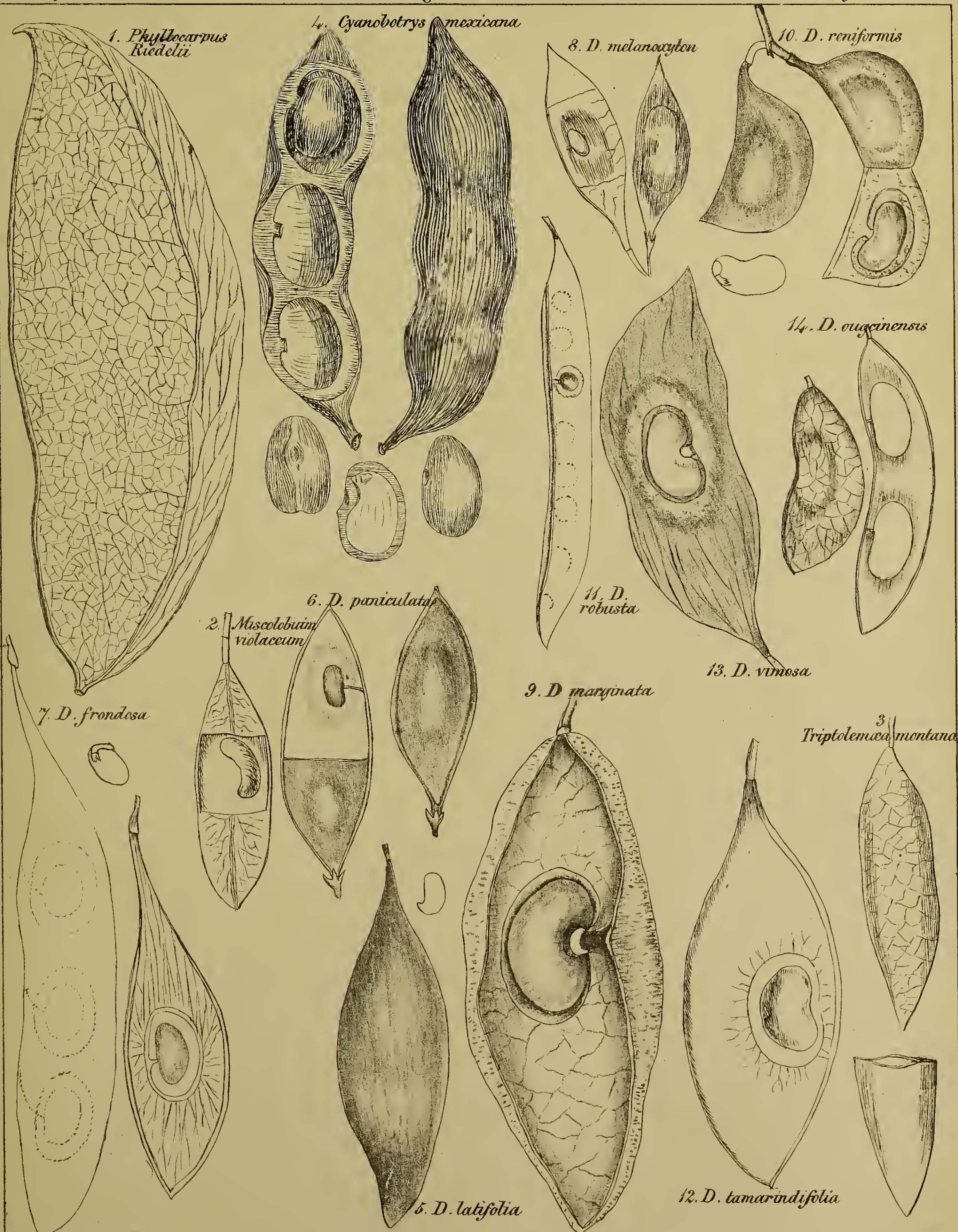
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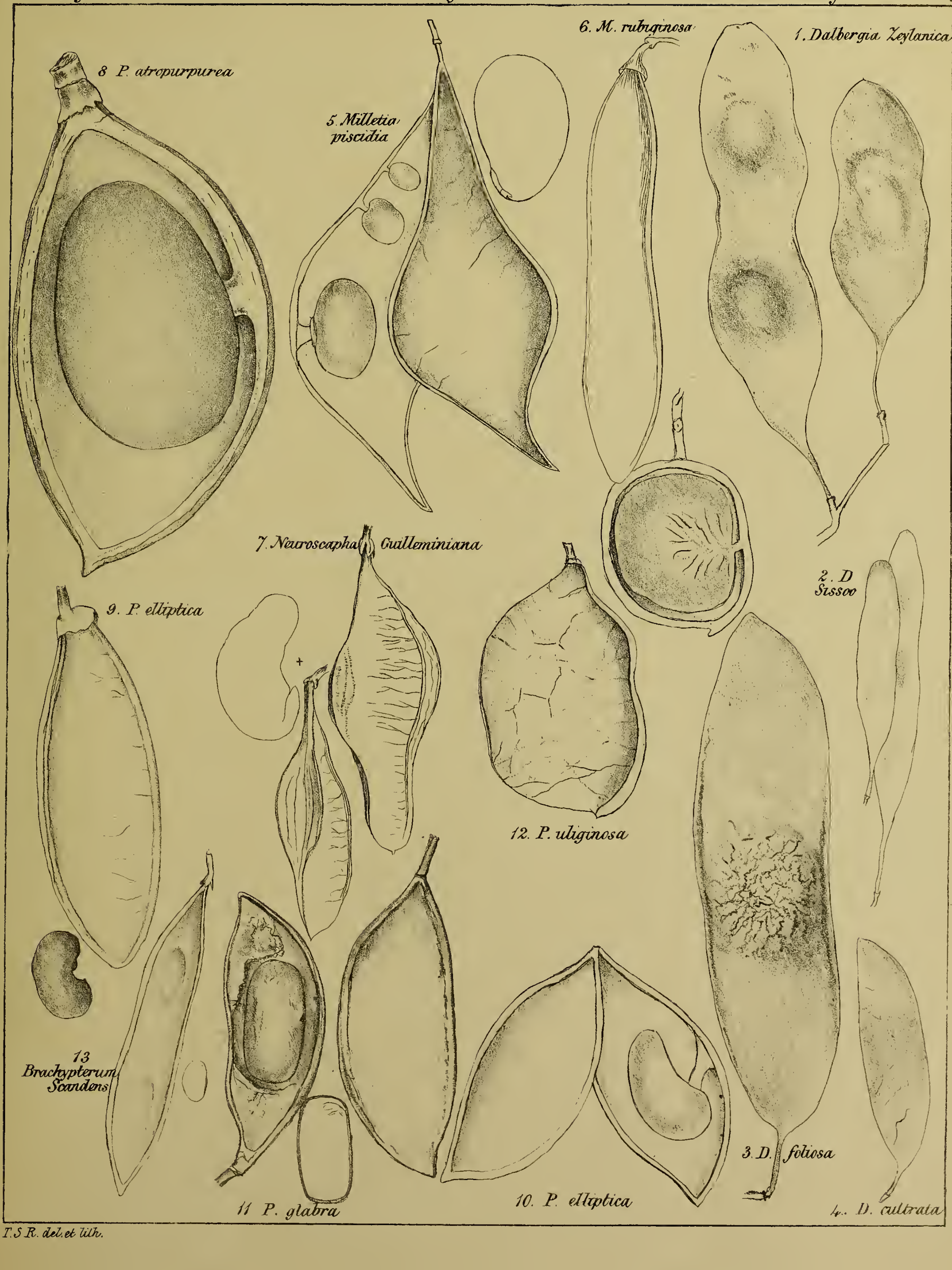
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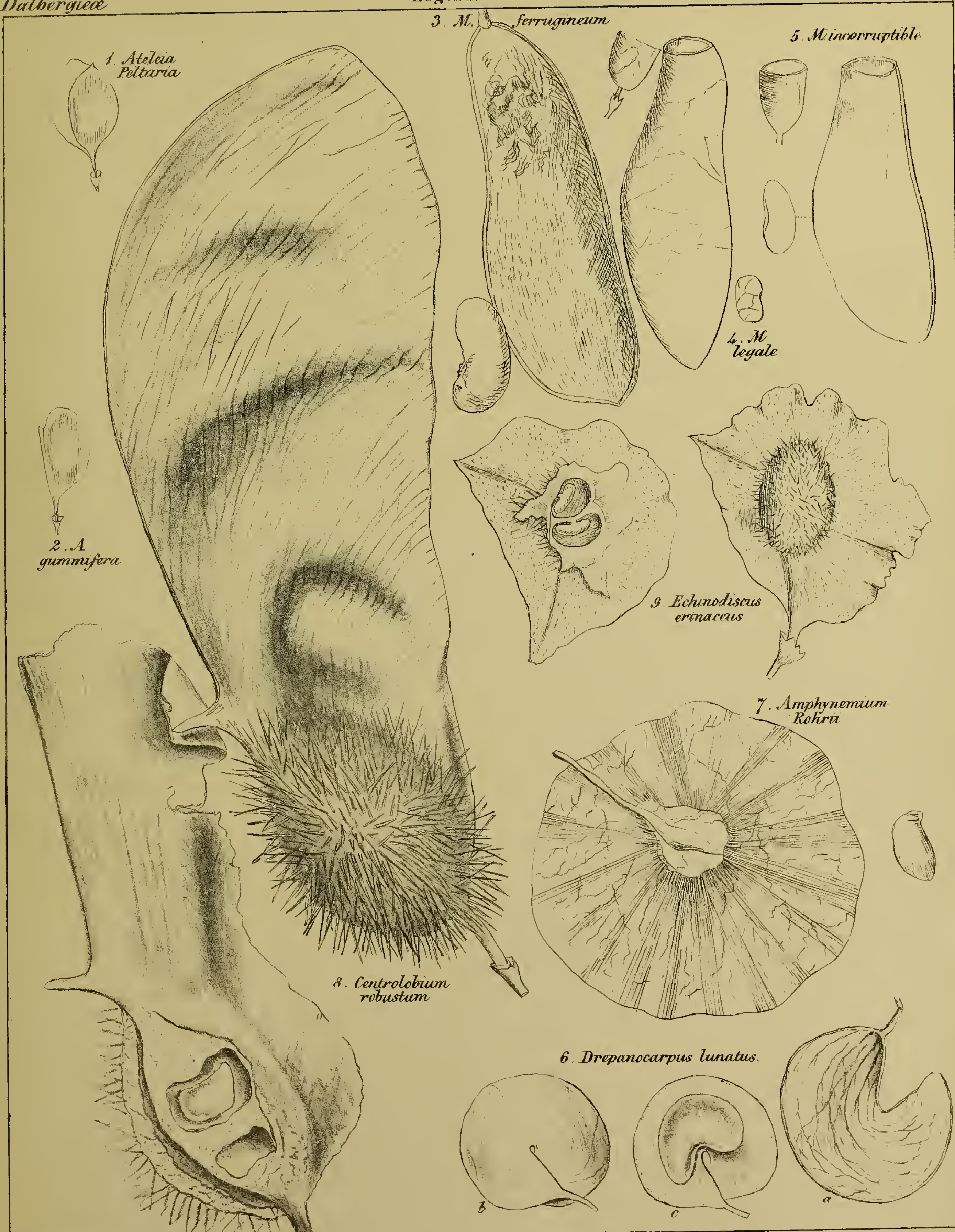
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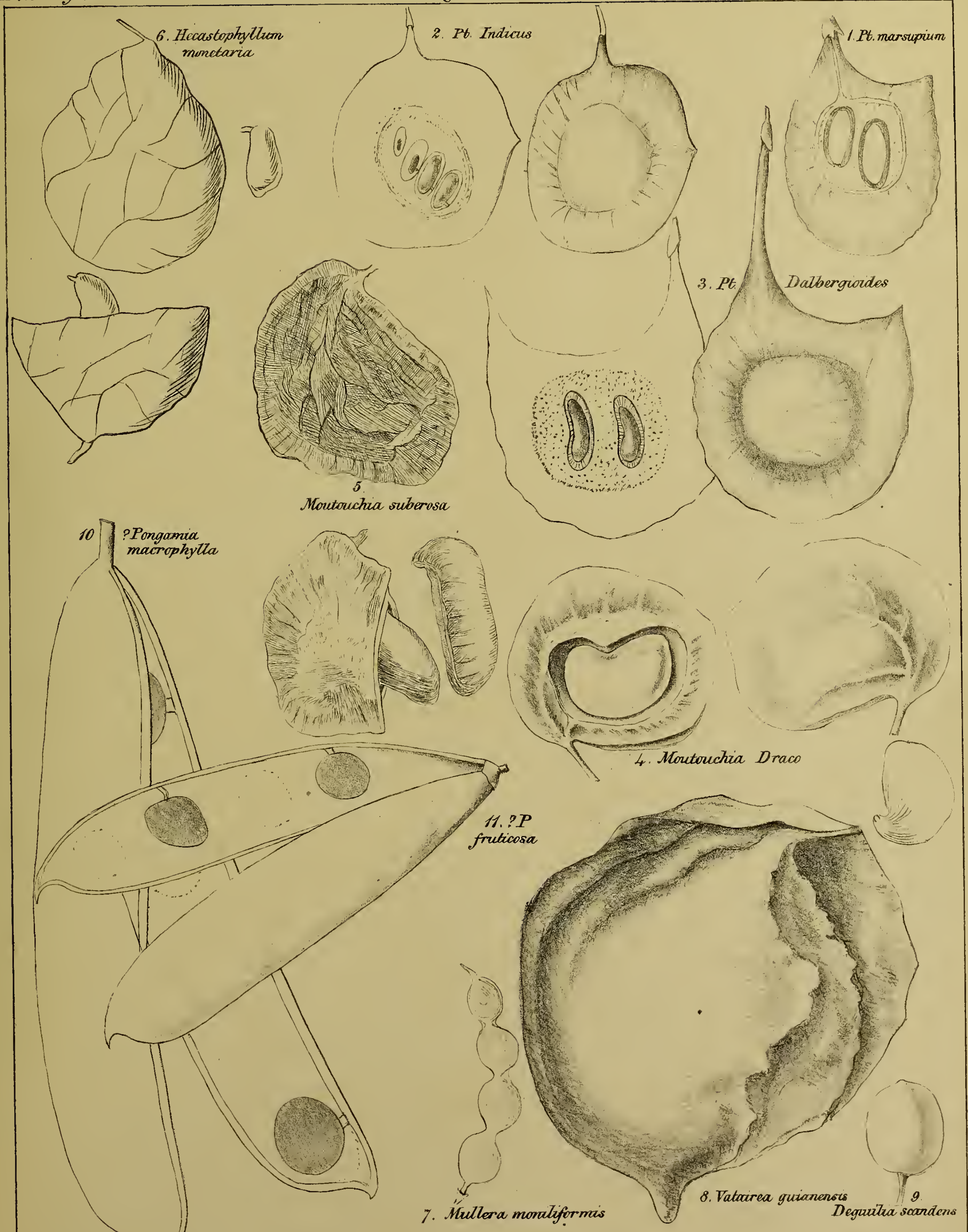
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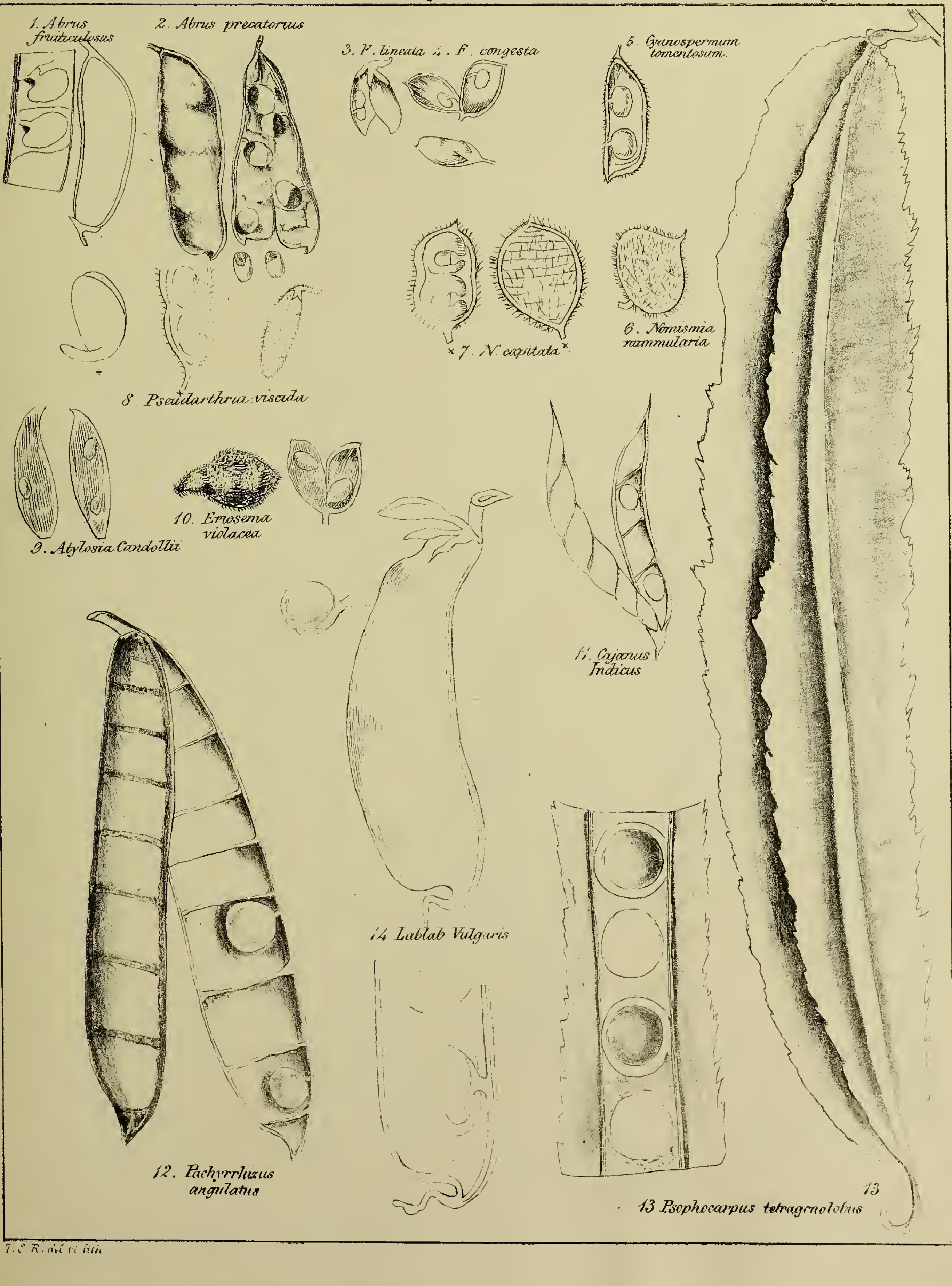
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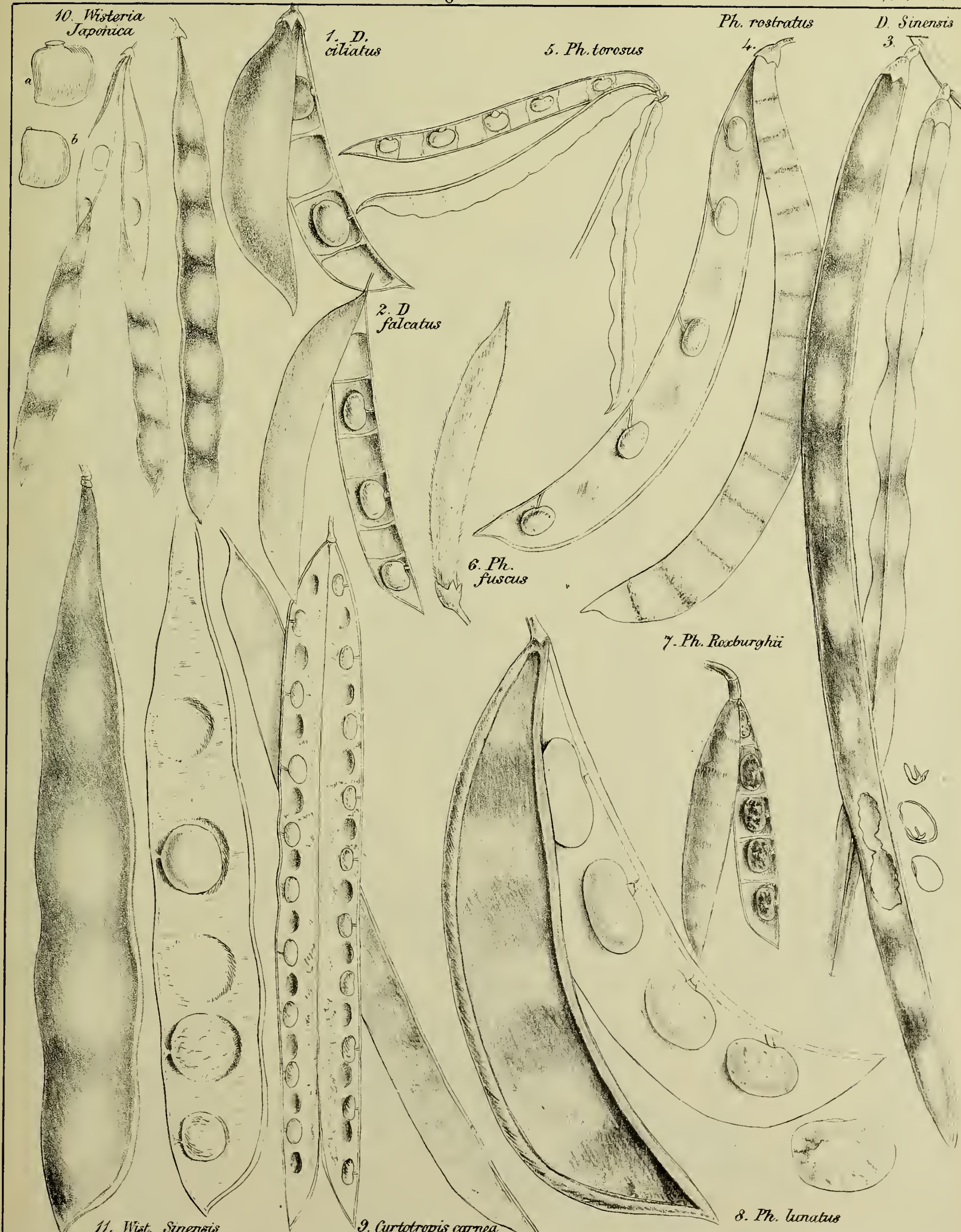
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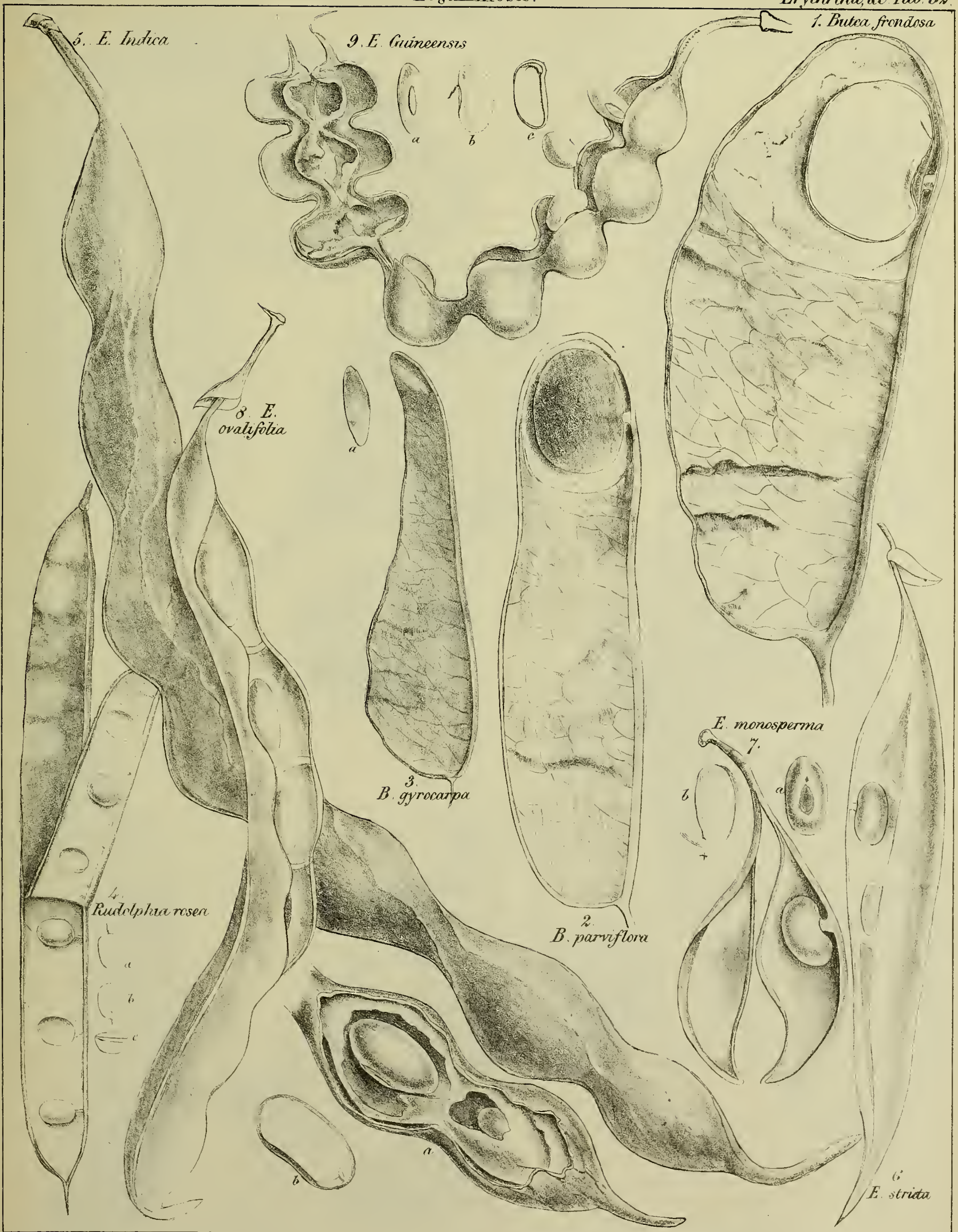
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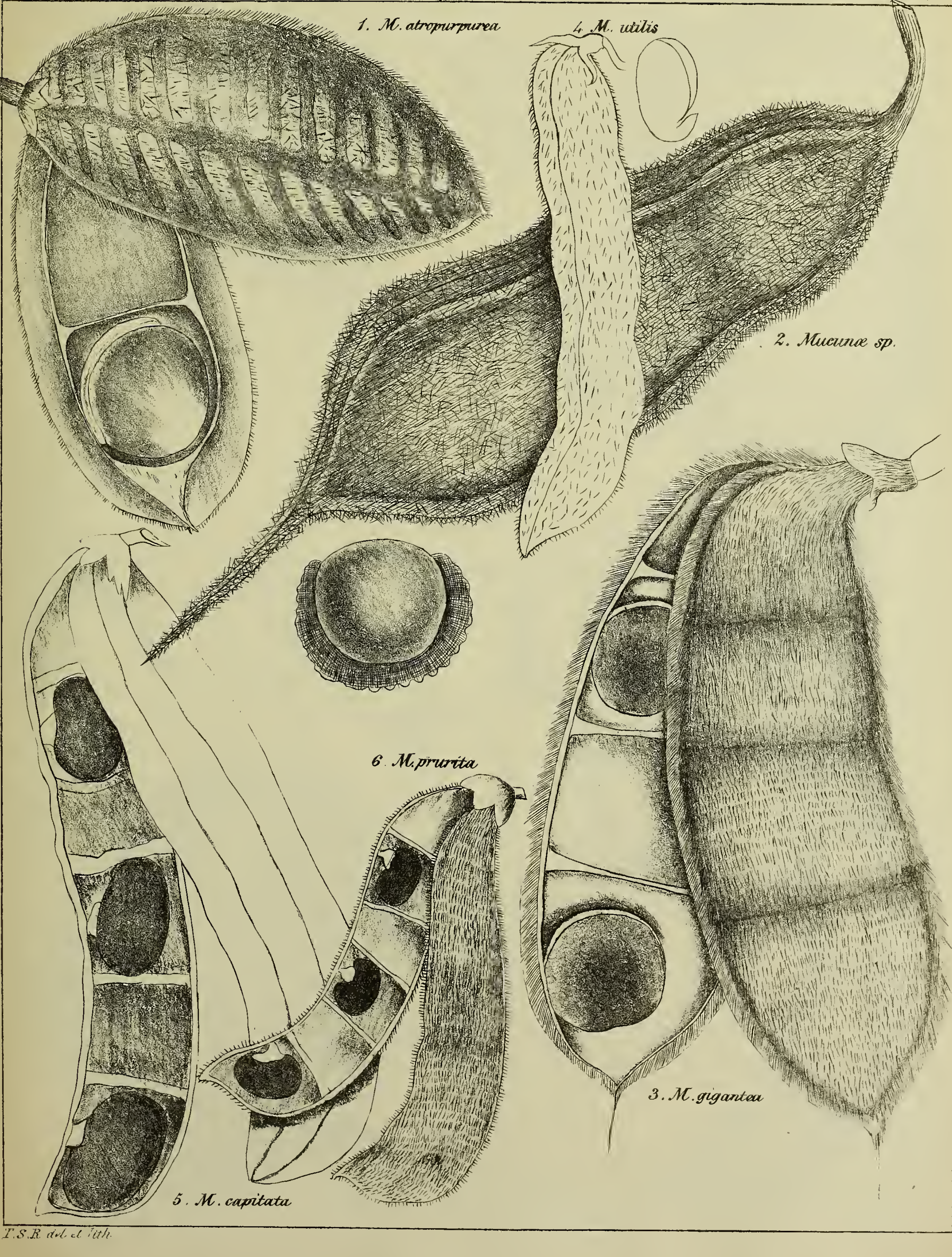
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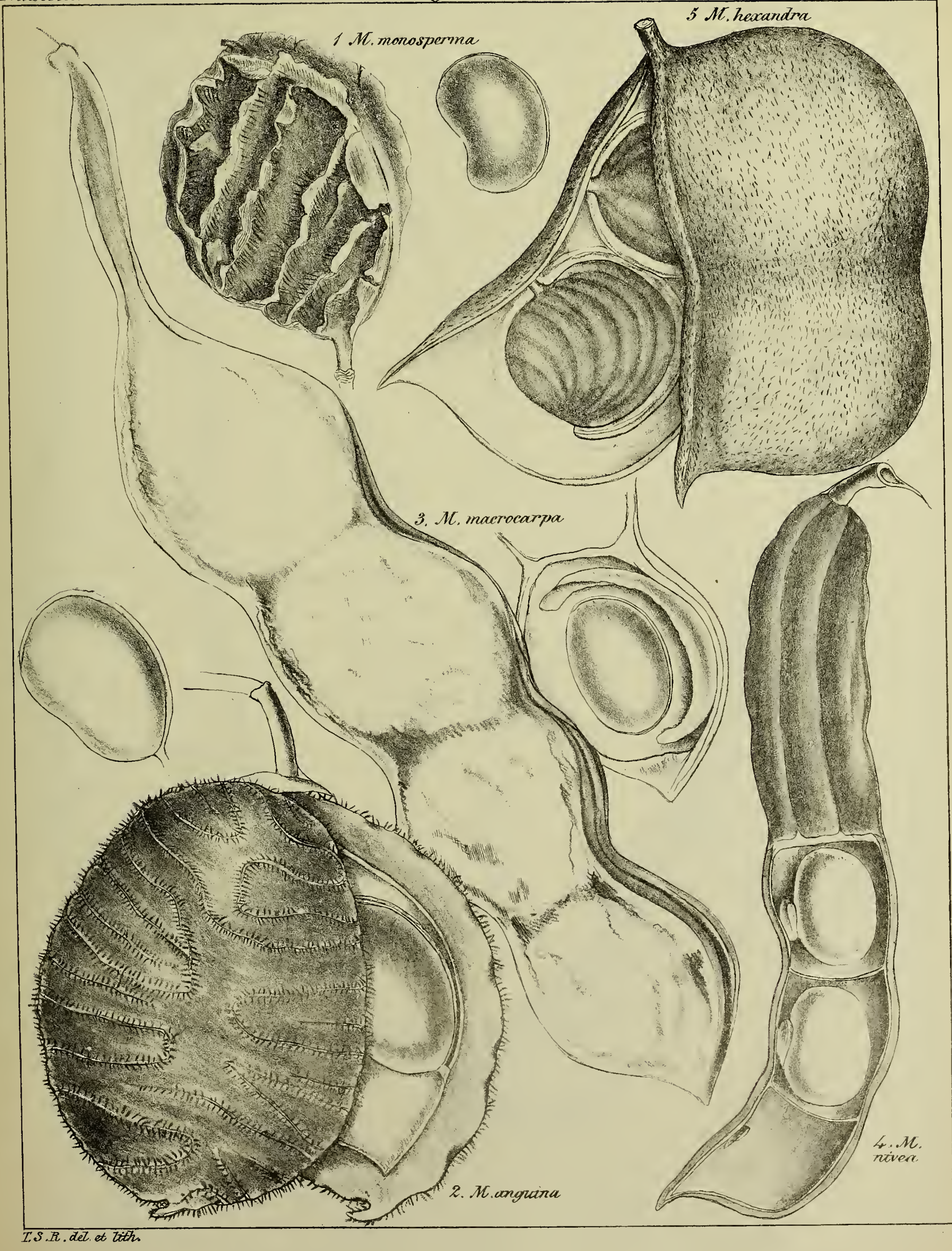
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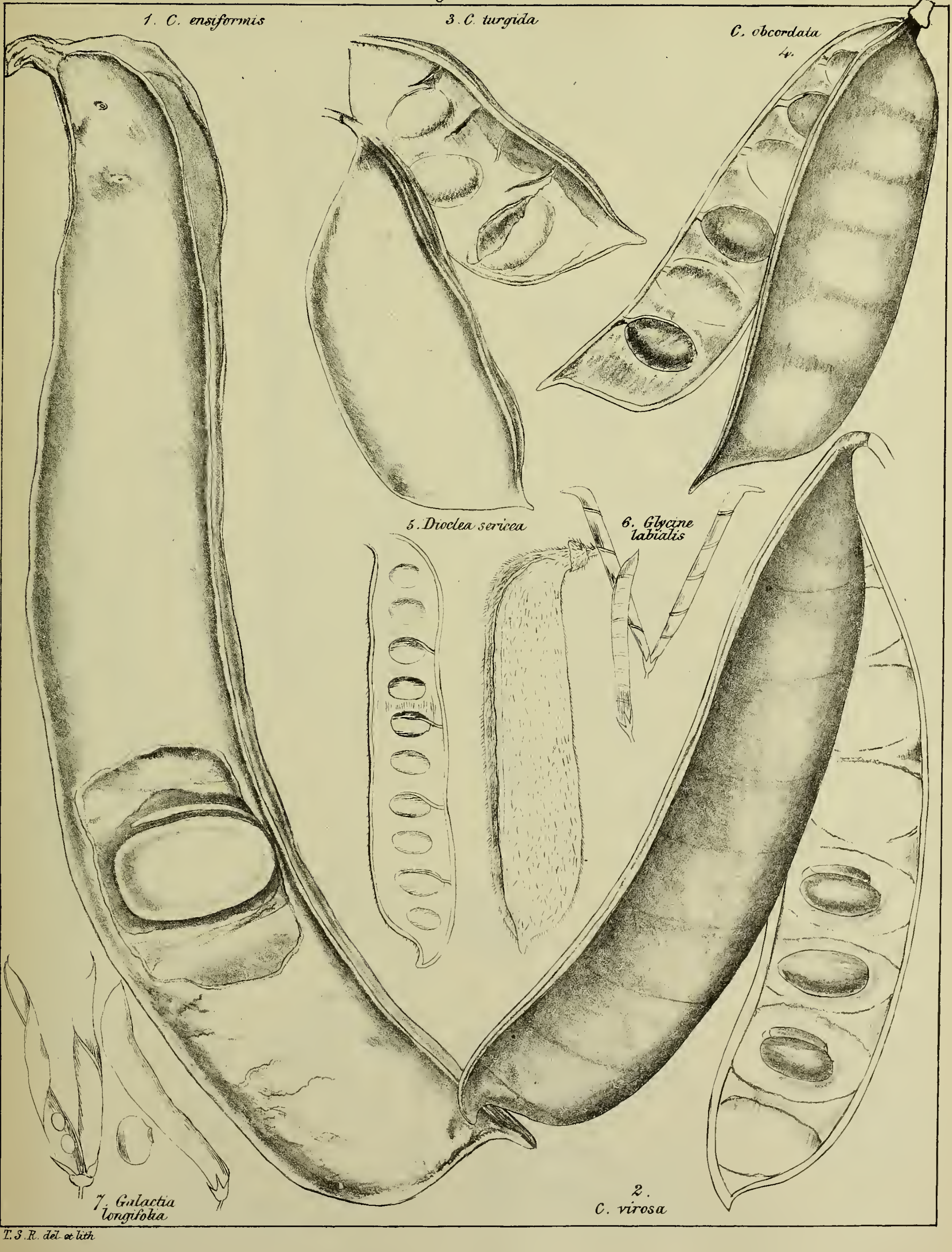
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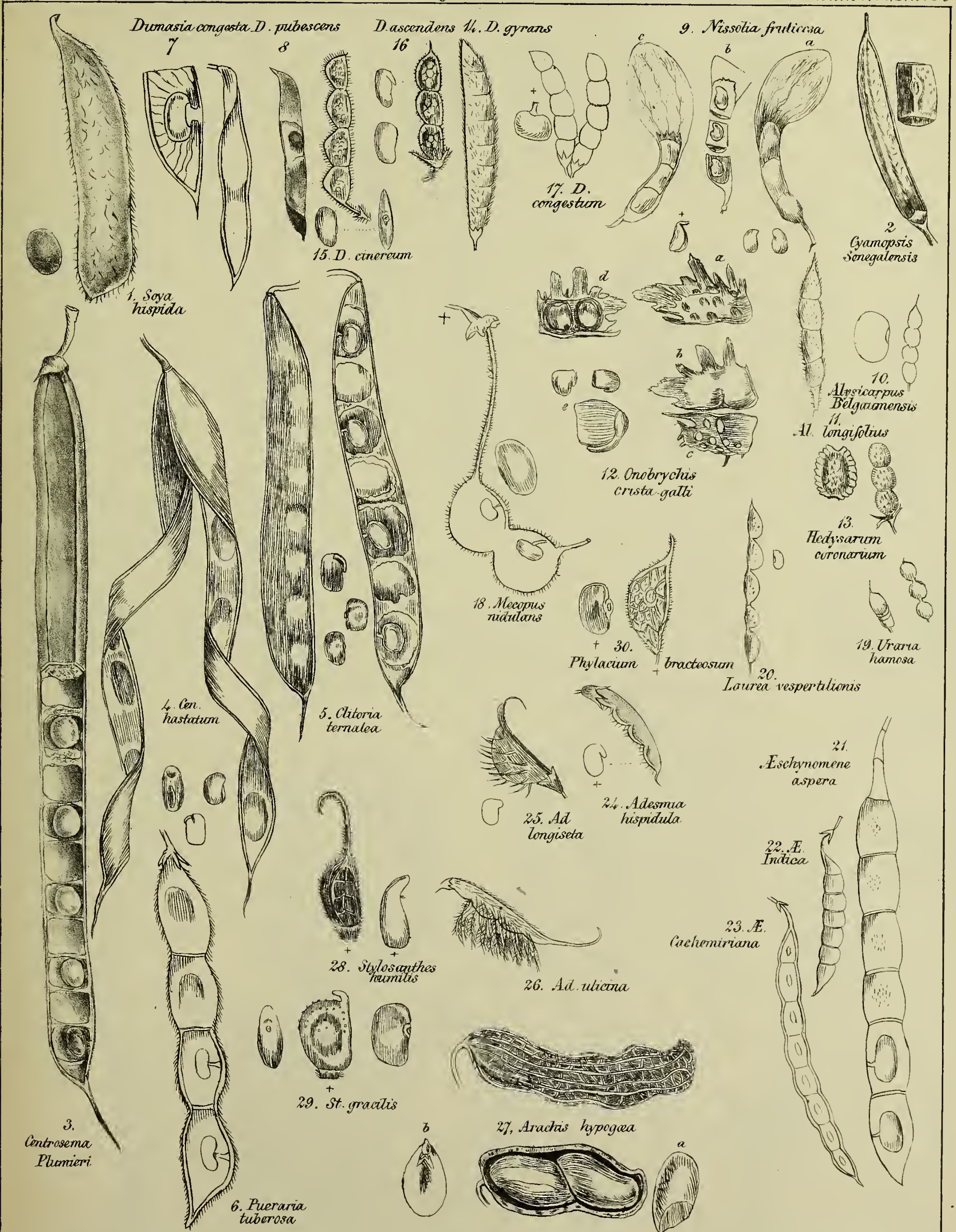
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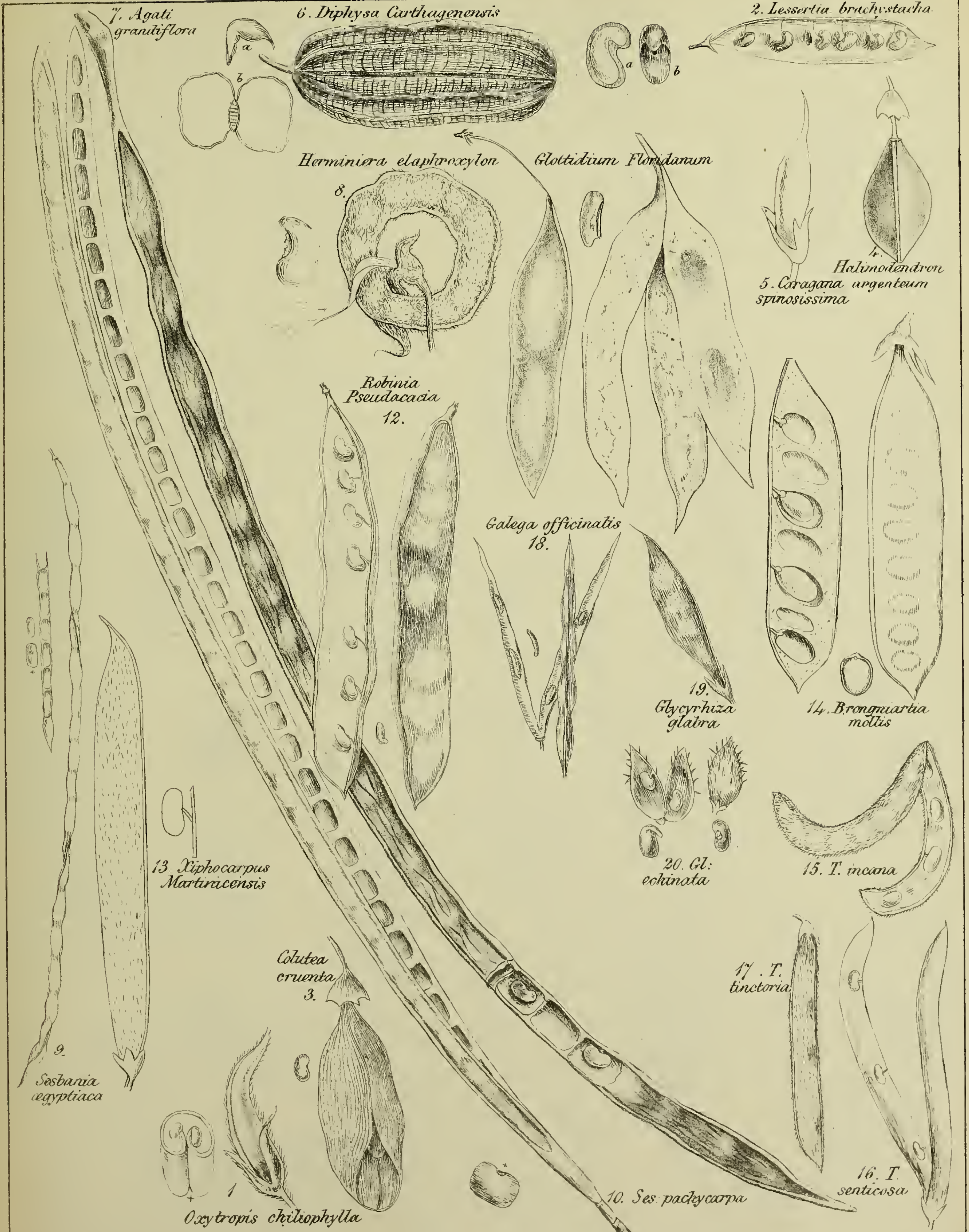
T. S. R. del. et lith.


Dumasia congesta
7
D. pubescens
8
D. ascendens
16
14. D. gyrans
9. Nissolia fruticosa
1. Soya hispida
15. D. cinereum
17. D. congestum
2 Cyamopsis Senegalensis
12. Onobrychis crista-galli
10. Alysicarpus Belgaumensis
11. Al. longifolius
13. Hedysarum coronarium
4. Cen. hastatum
5. Clitoria ternatea
18. Mecopus nidulans
30. Phylacium bracteosum
20. Laurea vespertilionis
19. Uraria hamosa
21. Æschynomene aspera
22. Æ. Indica
23. Æ. Cachemiriana
25. Ad longiseta
24. Adesmia hispidula
28. Stylosanthes humilis
26. Ad. ulicina
29. St. gracilis
27. Arachis hypogæa
3. Centrosema Plumieri
6. Pueraria tuberosa

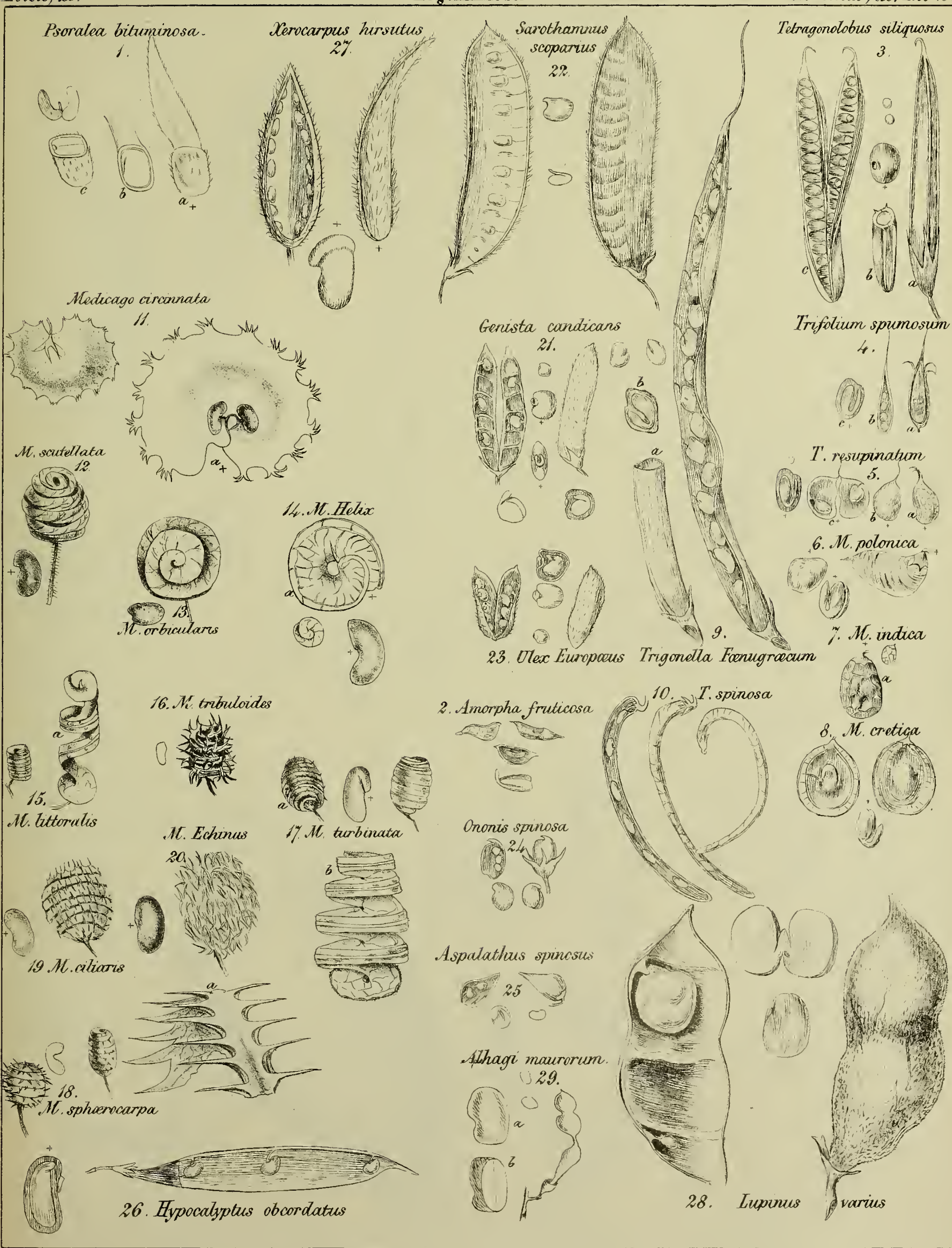
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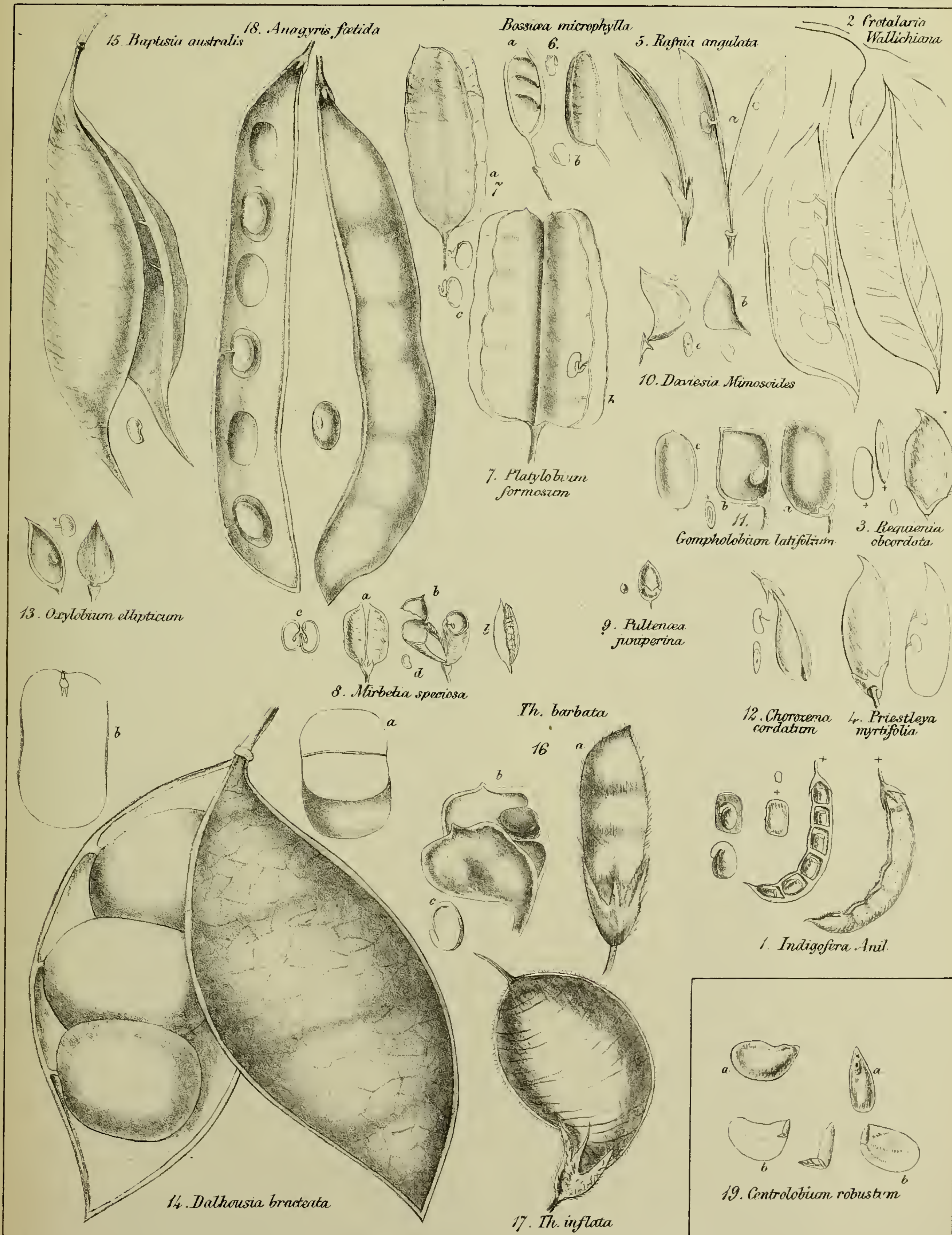
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INDEX GENERUM, SPECIERUM ET SYNONYMORUM.

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